



August 28, 2017

B94001.01

City of Visalia Water Conservation Plant
7579 Avenue 288
Visalia, California 93277

Attention: Mr. Jeff Misenheimer

Re: Results of Third Quarter 2017 Sludge Stockpile Sampling and Analysis

Site: City of Visalia Water Conservation Plant
7579 Avenue 288, Visalia, California

Mr. Jeff Misenheimer:

Moore Twining Associates, Inc. (Moore Twining) has prepared this letter report to document the results of the sampling and analysis of the Third Quarter 2017 sludge stockpile associated with the City of Visalia Water Conservation Plant (VWCP).

This report includes a brief project summary, field methods and observations, and analytical methods and results.

PROJECT SUMMARY

The VWCP is located between Avenue 288 and Avenue 280 and between Road 68 and Freeway 99. The location of the site is depicted in [Drawing 1](#). [Drawing 2](#) is a site plan depicting the VWCP on-site features and the approximate location of the Third Quarter 2017 sludge stockpile. The stockpile is generated from the dewatered solids that the screw press produces.

The City of Visalia Water Conservation Plant is operating on Waste Discharge Requirement, R5-2014-0076 (WDR) that was effective August 1, 2014. It is Moore Twining's understanding that sampling and analysis of the sludge stockpile is conducted quarterly to characterize the stockpiled dry sludge in order for VWCP to obtain disposal options for the material. On July 10, 2017, five stockpiles, shown on [Drawing 2](#) and [Drawing 3](#), were observed by a Moore Twining technician to be approximately 160-feet long by 55-feet wide in drying beds #3, #11, #12, #13 and #14, respectively and having an estimated average height of approximately 1.5 feet. The wet sludge was estimated to be approximately 1,120 cubic yards.

FIELD METHODS AND OBSERVATIONS

On July 10, 2017 Moore Twining collected seven composite samples from the Third Quarter, 2017 sludge stockpile. Prior to sampling, the dimensions of the stockpile were measured and an imaginary grid pattern was established over the stockpile. The stockpile was divided into seven equal sized sections. [Drawing 3](#) is a detail of the third Quarter 2017 stockpile showing the sampling locations within the grid.

Samples were collected from each of the seven grid sections. Sub-samples were selected from surface and 1 foot within the stockpile in each grid section and then composited in the field. Each composited sample was placed in four 500 ml glass jars with Teflon® lined lids then stored in an ice-cooled chest for transportation to Moore Twining's analytical laboratory for analysis. The samples were handled in accordance with standard chain-of-custody procedures. Copies of the chain-of-custody documentation are included with the analytical report in [Attachment A](#).

LABORATORY TESTING PROGRAM

The composite samples were tested for the requirements within the WDR, priority pollutants listed in 40 CFR, Appendix D, Table II and III (excluding total phenols). The analysis included CAM 17 Metals, Cyanide, Moisture Content, Organochlorinated Pesticides (OCPs), Polychlorinated Biphenyls (PCBs), Volatile Organic Compounds (VOCs), and Semi-Volatile Organic Compounds (SVOCs). Specific analytical methods and reporting limits for these analytes are included on the laboratory data sheets in [Attachment A](#).

ANALYTICAL RESULTS

A summary of the analytical results for R5-2014-0076 (WDR) is presented in [Table 1](#). Copies of the chain-of-custody document and certified analytical report are included in [Attachment A](#).

LIMITATIONS

Moore Twining's services are based on the assumption that site conditions do not deviate from those reported to Moore Twining. If variations are found, or undesirable conditions exist, Moore Twining should be notified so that supplemental consideration may be provided.

Work performed by Moore Twining is for the sole use of the client. Any reliance on Moore Twining's work by a third party is at such party's sole risk. Geologic and hydrologic conditions may exist at the site that cannot be identified solely by visual observation. Where subsurface assessment is performed, professional opinions are based on interpretation of data at discrete sampling locations which may not represent conditions at unsampled locations.

Moore Twining is unable to predict events that may change the site conditions after its professional services are performed. Therefore, Moore Twining assumes no responsibility for conditions it was

*City of Visalia Water Conservation Plant
August 28, 2017*

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not authorized to evaluate, or conditions not generally recognized as predictable when services were performed.

Professional services performed by Moore Twining were in accordance with generally-accepted engineering principles and practices in Tulare County at the time the services were performed. This warranty is in lieu of all other warranties, either expressed or implied.

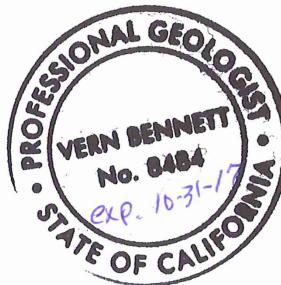
CLOSING

Moore Twining appreciates the opportunity to provide these services to you. If you have any questions regarding this letter or the project, please call Moore Twining at (559) 268-7021.

Respectfully submitted,

MOORE TWINING ASSOCIATES, INC.
Environmental and Geological Services Division

Vern Bennett, PG No. 8484
Project Manager



Attachments:

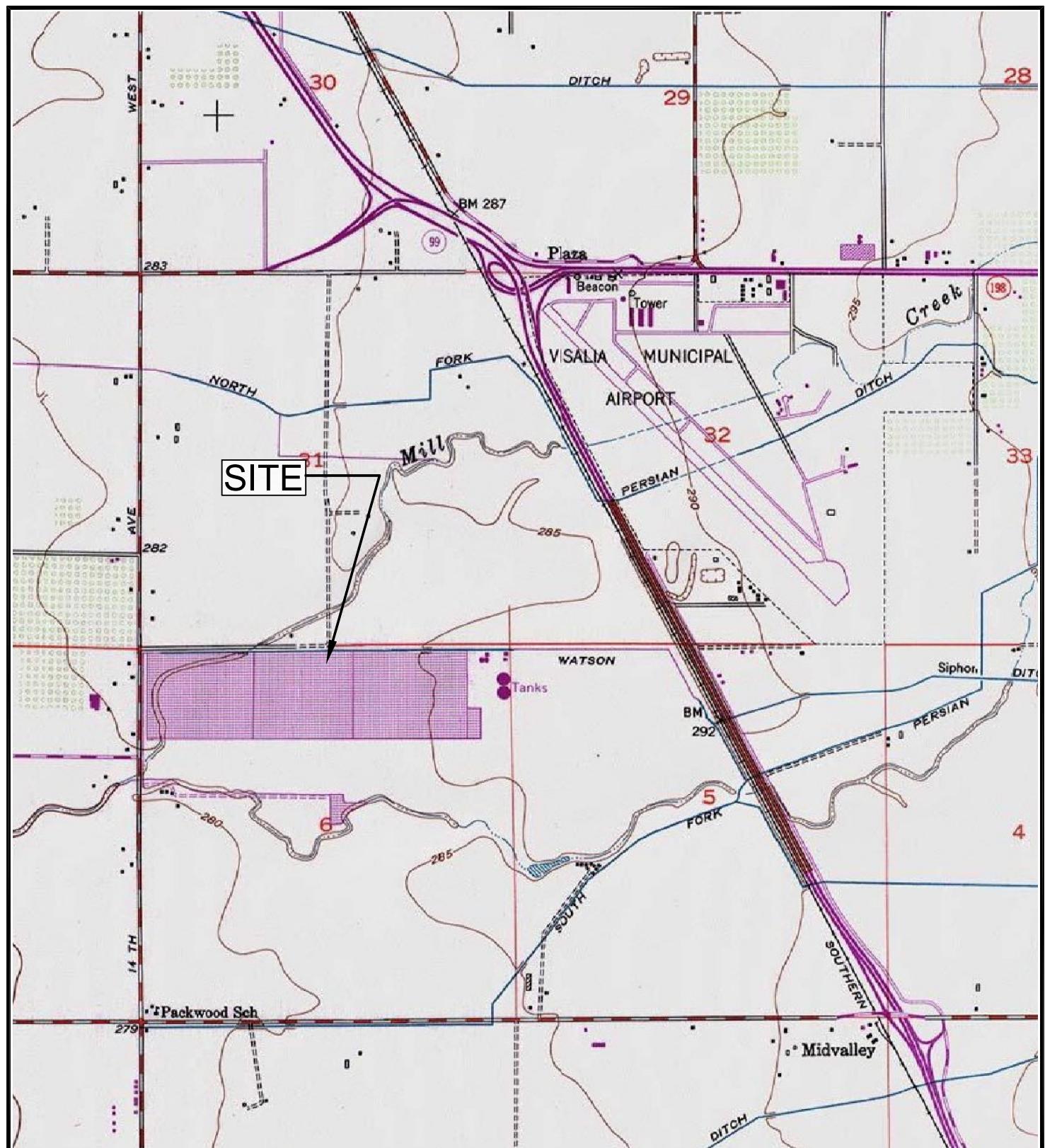
Tables: Table 1 - Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant

Drawings: Drawing 1 - Site Location Map
Drawing 2 - Aerial Site Plan showing approximate location of 3rd Quarter 2017 Stockpile
Drawing 3 - Generalized Sample Location Map of 3rd Quarter 2017 Stockpile

Attachment A: Laboratory Analytical Reports

DRAWINGS

DENALI_005458



SOURCE: U.S.G.S. TOPOGRAPHIC MAP, 7 1/2 MINUTE SERIES
GOSHEN, CALIFORNIA QUADRANGLE, PHOTOREVISED 1969

0 2000
APPROXIMATE SCALE
IN FEET

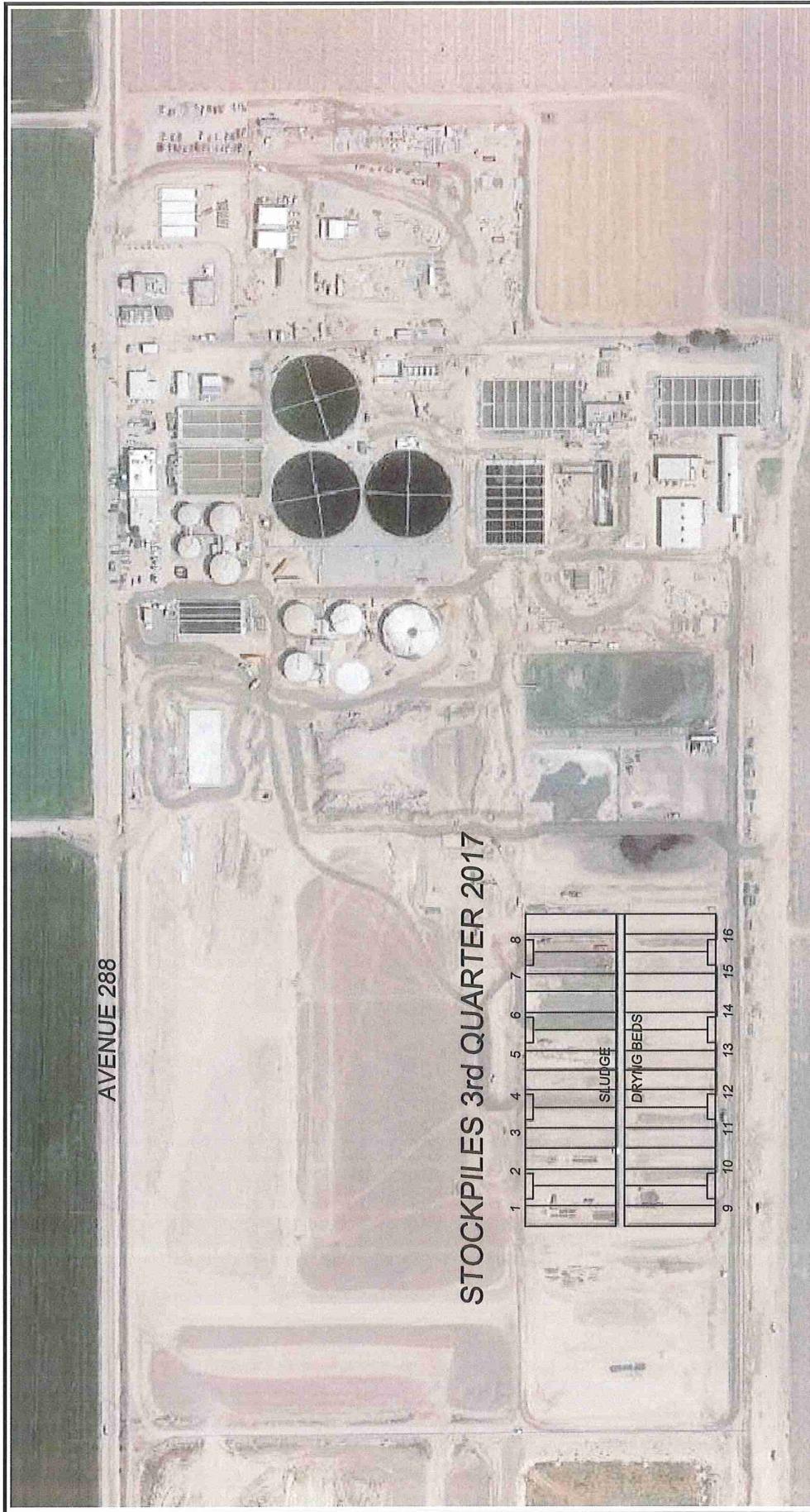
SITE LOCATION MAP
CITY OF VISALIA WATER CONSERVATION PLANT
7579 AVENUE 288
VISALIA, CALIFORNIA

FILE NO.: 94001-01-01	DATE: -
DRAWN BY:	APPROVED BY:
PROJECT NO. B94001.01	DRAWING NO. 1



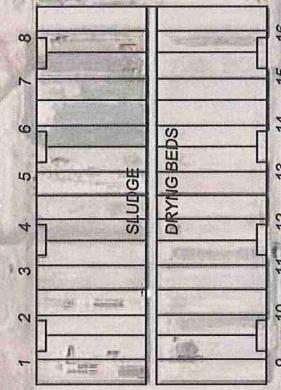
MOORE TWINNING
ASSOCIATES, INC.

DENALI_005459



AVENUE 288

STOCKPILES 3rd QUARTER 2017



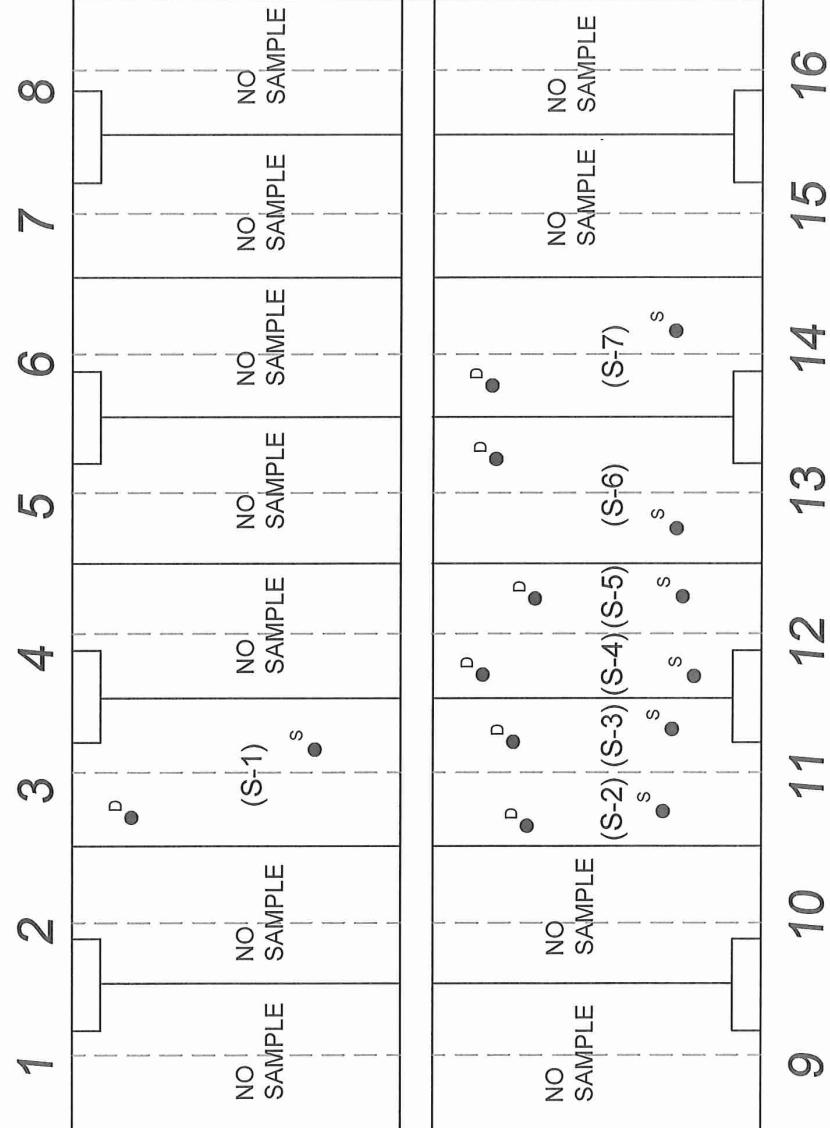
AERIAL PHOTO SITE PLAN - 3rd QUARTER 2017
CITY OF VISALIA WATER CONSERVATION PLANT
7579 AVENUE 288
VISALIA, CALIFORNIA

FILE NO. 94001-01-02	DATE DRAWN: 07/26/17
DRAWN BY: RM	APPROVED BY:
PROJECT NO. B94001.01	DRAWING NO. 2

MOORE TWINNING
ASSOCIATES, INC.



SLUDGE DRYING BEDS



N
 APPROXIMATE SCALE
 IN FEET

S - SHALLOW
 D - DEEP

(S-1) SAMPLE LOCATION
 AND ID NUMBER

MOORE TWINNING
 ASSOCIATES, INC.

FILE NO. 94001-01-03A DATE DRAWN: 07/26/17
 DRAWN BY: RM APPROVED BY:
 PROJECT NO. B94001.01 DRAWING NO. 3

GENERALIZED SAMPLE LOCATION MAP
 CITY OF VISALIA WATER CONSERVATION PLANT
 3rd QUARTER 2017 STOCKPILE
 VISALIA, CALIFORNIA

TABLE

TABLE 1
40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)
Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant
July 10, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7	^a Mean Value
TABLE II - Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS)								
Volatiles (results in mg/kg)								
Acrolein	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Acrylonitrile	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Benzene	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
Bromoform	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
Carbon tetrachloride	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071	<0.00071
Chlorobenzene	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082
Chlorodibromomethane, same as Dibromochloromethane	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055	<0.00055
Chloroethane	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Chloroethylvinyl ether	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chloroform	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056	<0.00056
Bromodichloromethane	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
1,1-Dichloroethane	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
1,2-Dichloroethane (1,2-DCA)	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
1,1-dichloroethylene, same as 1,1-Dichloroethene	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092	<0.00092
1,2-Dichloropropane	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072	<0.00072
1,3-dichloropropylene, same as cis-1,3-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044
Ethylbenzene	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076
Methyl chloride, same as Bromomethane	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Methyl chloride, same as Chloromethane	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066	<0.00066
Methylene chloride	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1,2,2-Tetrachloroethane	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074
Tetrachlorethylene, same as Tetrachloroethene (PCE)	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070	<0.00070
Toluene	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
1,2-trans-dichloroethylene, same as trans-1,2-Dichloroethene	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081
1,1,1-Trichloroethane (TCA)	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060
1,1,2-Trichloroethane	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083	<0.00083
Trichloroethylene (TCE)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Vinyl chloride	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076
Acid Compounds (results in mg/kg)								
2-Chlorophenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,4-Dichlorophenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,4-Dimethylphenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4,6-dinitro-o-cresol, same as 4,6-Dinitro-2-methylphenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,4-Dinitrophenol	<0.093	<0.093	<0.093	<0.093	<0.093	<0.093	<0.093	<0.093
2-Nitrophenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Nitrophenol	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
p-chloro-m-cresol, same as 4-Chloro-3-methylphenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pentachlorophenol	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenol	<0.050	0.51	1.5	0.30	<0.050	<0.050	2.5	0.698
2,4,6-Trichlorophenol	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)
Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant
July 10, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7		^a Mean Value
	Base/Neutral (results in mg/kg)								
Acenaphthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Acenaphthylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Benzidine	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Benzo (a) anthracene	0.11	<0.050	0.071	<0.093	0.06	0.096	0.09		0.005
Benzo (a) pyrene	0.11	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		0.037
Benzo (b) fluoranthene	<0.050	<0.050	<0.050	<0.12	<0.050	<0.050	<0.050		<0.050
Benzo(ghi)perylene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Benzo (k) fluoranthene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Bis(2-chloroethoxy)methane	<0.050	<0.050	<0.050	0.30	<0.050	<0.050	<0.050		0.064
Bis(2-chloroethyl)ether	0.054	<0.050	<0.050	<0.12	<0.050	<0.050	<0.050		0.034
Bis(2-chloroisopropyl)ether	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Bis(2-ethylhexyl) phthalate	5.1	1.2	5.1	6.2	3.1	4.2	4.4		4.19
4-Bromophenyl phenyl ether	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Butyl benzyl phthalate	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
2-Chloronaphthalene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
4-Chlorophenyl phenyl ether	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Chrysene	0.12	<0.050	0.082	0.13	0.066	0.11	0.099		0.10
Dibenzo(a,h)anthracene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
1,2-Dichlorobenzene	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046		<0.00046
1,3-Dichlorobenzene	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074		<0.00074
1,4-Dichlorobenzene	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094		<0.00094
3,3'-dichlorobenzidene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Diethyl phthalate	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Dimethyl phthalate	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Di-n-butyl phthalate	0.098	<0.050	<0.050	0.1	0.081	0.11	0.12		0.10
2,4-Dinitrotoluene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
2,6-Dinitrotoluene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Di-n-octyl phthalate	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
1,2-Diphenylhydrazine	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Fluoranthene	0.12	<0.050	0.078	0.11	0.06	0.11	0.082		0.09
Fluorene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Hexachlorobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Hexachlorobutadiene	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082	<0.00082		<0.00082
Hexachlorocyclopentadiene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Hexachloroethane	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Indeno(1,2,3-cd)pyrene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Isophorone	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
Naphthalene	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015		<0.0015
Nitrobenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
N-Nitrosodimethylamine	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051		<0.051
N-Nitrosodi-n-propylamine	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050		<0.050
N-Nitrosodiphenylamine	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10
Phenanthrene	0.099	<0.050	0.078	0.11	0.067	0.091	<0.050		0.09
Pyrene	0.54	0.16	0.43	0.6	0.35	0.56	0.53		0.45
1,2,4-Trichlorobenzene	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068		<0.00068

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)

Sludge Stockpile Sampling Analytical Results

City of Visalia Water Conservation Plant

July 10, 2017

**TABLE III - Organic Toxic Pollutants (Metals and Cyanide) without Total Phenols
(Results in mg/kg - dry weight)**

Antimony	<0.10	<0.10	<0.10	0.38	<0.10	<0.10	<0.10	0.097
Arsenic	3.6	1.8	2.2	4.1	3.7	2.9	1.9	2.89
Beryllium	0.097	0.078	0.087	0.11	0.093	0.12	0.046	0.09
Cadmium	1.2	0.79	0.96	1.1	0.96	1.3	0.58	0.98
Chromium	23	18	23	24	21	25	12	20.86
Copper	260	200	240	260	240	280	130	230.00
Lead	35	23	27	30	29	33	17	27.71
Mercury	0.98	1.2	1.1	0.62	0.87	1.1	0.89	0.97
Molybdenum	13	11	14	14	13	15	8.1	12.59
Nickel	15	12	15	15	14	16	8.4	13.6
Selenium	7.7	8.1	9.2	9.6	7.5	7.2	4.8	7.7
Silver	7.4	5.9	7.1	8	7	7.8	3.9	6.7
Thallium	1.7	1.1	1.5	1.9	1.2	1.2	<0.46	1.26
Zinc	820	640	770	840	750	940	420	740
Cyanide (total)	5.3	0.68	1.2	0.73	1.2	2.4	1.2	1.8

<1.0 = not detected at or above the method detection limit ND = not detected

mg/kg = milligrams per kilogram

J= flagged as an estimate value, result is less than the laboratory reporting limit but

- - - = not established

observed above the method detection limit.

(a) The mean is value calculated using all detections above the reporting limit of the laboratory. If detections are estimated (J flagged) then the mean is calculated from all estimated values above the method detection limit and 1/2 the method detection limit. If there are no detections, then the mean is listed as less than the method detection limit.

This Table is a summary of data required from WDR R5-2014-0076.

DENALI 005465

40 CFR, Appendix D, Tables II and III (Excluding Total Phenols)
Sludge Stockpile Sampling Analytical Results
City of Visalia Water Conservation Plant
July 10, 2017

Constituents	S-1	S-2	S-3	S-4	S-5	S-6	S-7	^a Mean Value
Additional Analysis Requested								
STLC Metals (Results in mg/L)								
Antimony	0.04	<0.026	<0.026	0.026	0.099	0.086	0.071	0.049
Arsenic	0.14	<0.036	0.18	0.17	0.071	0.36	0.081	0.146
Beryllium	0.0027	0.0021	0.0018	0.0022	0.0023	0.0028	0.0033	0.003
Cadmium	0.027	<0.0016	<0.0016	0.0059	<0.0016	0.011	<0.0016	0.003
Chromium	0.7	0.38	0.46	0.32	0.53	0.77	0.5	0.533
Copper	0.16	0.02	0.026	0.033	0.059	0.16	0.042	0.079
Lead	0.49	0.34	0.17	0.49	0.44	0.45	0.2	0.369
Mercury	2.4	1.8	1.7	1.9	2	2.6	2.1	2.0714
Molybdenum	0.35	0.047	0.025	0.16	0.19	0.39	0.16	0.189
Nickel	0.59	0.28	0.3	0.26	0.41	0.63	0.39	0.41
Selenium	0.31	0.3	0.49	0.21	0.24	0.27	0.47	0.300
Silver	<0.0060	<0.0060	0.0061	0.011	0.0092	0.021	0.019	0.011
Thallium	0.067	0.14	0.0049	0.058	0.048	0.15	0.094	0.093
Zinc	47	15	12	18	27	46	22	27

STLC - Soluble Threshold Limit Concentration

mg/L = milligram per liter

ATTACHMENT A

Laboratory Analytical Reports
(wo# DG10038)



California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

August 01, 2017

Work Order #: DG10038

Vern Bennett
MTA Environmental Division
2527 Fresno Street
Fresno, CA 93721

RE: Visalia Water Conservation Plant

Enclosed are the analytical results for samples received by our laboratory on 07/10/17 . For your reference, these analyses have been assigned laboratory work order number DG10038.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

A handwritten signature in black ink that appears to read "Julio Morales".

Julio Morales
Client Services Supervisor



2527 Fresno Street
Fresno, CA 93721
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California ELAP Certificate #1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant

Project Number: B94001.01

Project Manager: Vern Bennett

Reported:
8/1/2017

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	DG10038-01	Biosolids	07/10/17 11:00	07/10/17 12:45
S-2	DG10038-02	Biosolids	07/10/17 11:15	07/10/17 12:45
S-3	DG10038-03	Biosolids	07/10/17 11:30	07/10/17 12:45
S-4	DG10038-04	Biosolids	07/10/17 11:45	07/10/17 12:45
S-5	DG10038-05	Biosolids	07/10/17 12:00	07/10/17 12:45
S-6	DG10038-06	Biosolids	07/10/17 12:15	07/10/17 12:45
S-7	DG10038-07	Biosolids	07/10/17 12:30	07/10/17 12:45



2527 Fresno Street
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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)		5.3	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		79	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		79	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Arsenic		3.6	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Barium		270	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Beryllium	J	0.097	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Cadmium		1.2	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Chromium		23	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Cobalt		2.0	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Copper		260	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Lead		35	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Mercury		0.98	0.071	0.017	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:03	EPA 7471A
Molybdenum		13	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Nickel		15	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Selenium		7.7	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Silver		7.4	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Thallium	J	1.7	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Vanadium		56	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B
Zinc		820	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:12	EPA 6010B

Metals (STLC/Citrate Buffer)

Moore Twinning Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony	J	0.040	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Arsenic	J	0.14	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Barium		6.9	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Beryllium	J	0.0027	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Cadmium		0.027	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Chromium		0.70	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Cobalt	J	0.023	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Copper		0.16	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Lead	J	0.49	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Mercury	J	2.4	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 12:56	EPA 7470A
Molybdenum		0.35	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Nickel		0.59	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Selenium	J	0.31	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Silver		ND	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Thallium	J	0.067	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Vanadium		2.0	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B
Zinc		47	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 10:24	EPA 6010B

Semi-Volatile Organics

4,4'-DDD		ND	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
4,4'-DDE	J	0.0057	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
alpha-Chlordane	J	0.0085	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
beta-BHC	*	ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Endrin ketone		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A

Moore Twinning Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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Fresno, CA 93721
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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
--	---	-----------------------

S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*,J	0.0097	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:10	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	S02	130 %	II.4-122				U7G1919		7/19/17 16:33	7/21/17 13:10	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)		66.1 %	8.5-170				U7G1919		7/19/17 16:33	7/21/17 13:10	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:19	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)		68.4 %	17.2-156				U7G1307		7/13/17 9:18	7/14/17 12:19	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)		45.6 %	20.6-II9				U7G1307		7/13/17 9:18	7/14/17 12:19	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Phenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Bis(2-chloroethyl)ether	J	0.054	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
--	---	-----------------------

S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Phenanthrene	J	0.099	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Di-n-butyl phthalate	J	0.098	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Fluoranthene	J	0.12	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Pyrene		0.54	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzo (a) anthracene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Chrysene	J	0.12	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Bis(2-ethylhexyl) phthalate		5.1	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/19/17 12:21	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzo (a) pyrene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: 2-Fluorophenol	S02	16.9 %	22-92				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: Phenol-d5		35.4 %	10-94				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	28.6 %	41-110				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: 2-Fluorobiphenyl		48.4 %	40-92				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	46.2 %	49-138				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Surrogate: d14-Terphenyl	S02	150 %	44-131				U7G1211		7/12/17 8:16	7/19/17 4:41	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Ethanol		ND	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Carbon disulfide	0.0086	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B	
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Acetone	0.51	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B	
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
2-Butanone (MEK)		0.11	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-1

DG10038-01 (Biosolids)

Sampled: 07/10/17 11:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
p-Isopropyltoluene		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 10:36	EPA 8260B
Surrogate: Dibromofluoromethane		108 %	70-130				U7G1204		7/12/17 7:52	7/12/17 10:36	EPA 8260B
Surrogate: Toluene-d8		98.1 %	70-130				U7G1204		7/12/17 7:52	7/12/17 10:36	EPA 8260B
Surrogate: 4-Bromofluorobenzene		84.4 %	70-130				U7G1204		7/12/17 7:52	7/12/17 10:36	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)	J	0.68	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		43	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		43	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Arsenic	J	1.8	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Barium		200	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Beryllium	J	0.078	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Cadmium		0.79	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Chromium		18	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Cobalt		1.5	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Copper		200	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Lead		23	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Mercury		1.2	0.040	0.0095	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:05	EPA 7471A
Molybdenum		11	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Nickel		12	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Selenium		8.1	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Silver		5.9	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Thallium	J	1.1	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Vanadium		44	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B
Zinc		640	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:22	EPA 6010B

Metals (STLC/Citrate Buffer)

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Juliane Adams, Director of Analytical Chemistry

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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony		ND	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Arsenic		ND	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Barium		6.1	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Beryllium	J	0.0021	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Cadmium		ND	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Chromium		0.38	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Cobalt		ND	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Copper	J	0.020	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Lead	J	0.34	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Mercury	J	1.8	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:04	EPA 7470A
Molybdenum	J	0.047	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Nickel		0.28	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Selenium	J	0.30	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Silver		ND	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Thallium	J	0.14	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Vanadium		1.0	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B
Zinc		15	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:01	EPA 6010B

Semi-Volatile Organics

4,4'-DDD	J	0.0012	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
4,4'-DDE		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
alpha-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
beta-BHC	*	ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Endrin ketone	J	0.0013	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	ND	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:25	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	120 %	11.4-122					U7G1919		7/19/17 16:33	7/21/17 13:25	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	46.7 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 13:25	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:34	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	69.2 %	17.2-156					U7G1307		7/13/17 9:18	7/14/17 12:34	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	37.6 %	20.6-119					U7G1307		7/13/17 9:18	7/14/17 12:34	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Phenol	0.51	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C

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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Phenanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Di-n-butyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Pyrene	J	0.16	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzo (a) anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Chrysene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Bis(2-ethylhexyl) phthalate		1.2	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: 2-Fluorophenol		23.0 %	22-92				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: Phenol-d5		33.7 %	10-94				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	22.2 %	41-110				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: 2-Fluorobiphenyl		45.1 %	40-92				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	47.3 %	49-138				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Surrogate: d14-Terphenyl		114 %	44-131				U7G1211		7/12/17 8:16	7/19/17 5:23	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Ethanol		ND	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Carbon disulfide		0.033	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Iodomethane		0.024	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Acetone		0.83	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B

Moore Twinning Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
2-Butanone (MEK)		0.32	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-2

DG10038-02 (Biosolids)

Sampled: 07/10/17 11:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
p-Isopropyltoluene		0.022	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:01	EPA 8260B
Surrogate: Dibromofluoromethane		111 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:01	EPA 8260B
Surrogate: Toluene-d8		105 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:01	EPA 8260B
Surrogate: 4-Bromofluorobenzene		80.9 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:01	EPA 8260B

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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)		1.2	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		49	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		49	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Arsenic		2.2	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Barium		230	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Beryllium	J	0.087	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Cadmium		0.96	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Chromium		23	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Cobalt		1.9	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Copper		240	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Lead		27	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Mercury		1.1	0.073	0.017	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:08	EPA 7471A
Molybdenum		14	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Nickel		15	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Selenium		9.2	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Silver		7.1	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Thallium	J	1.5	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Vanadium		54	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B
Zinc		770	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:26	EPA 6010B

Metals (STLC/Citrate Buffer)

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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony		ND	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Arsenic	J	0.18	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Barium		5.8	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Beryllium	J	0.0018	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Cadmium		ND	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Chromium		0.46	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Cobalt	J	0.0054	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Copper	J	0.026	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Lead	J	0.17	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Mercury	J	1.7	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:06	EPA 7470A
Molybdenum	J	0.025	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Nickel		0.30	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Selenium		0.49	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Silver	J	0.0061	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Thallium	J	0.0049	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Vanadium		1.3	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B
Zinc		12	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:10	EPA 6010B

Semi-Volatile Organics

4,4'-DDD	J	0.0018	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
4,4'-DDE		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
alpha-Chlordane	J	0.0054	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
beta-BHC	*, J	0.0042	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Endrin ketone	J	0.0019	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	ND	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:41	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	118 %	11.4-122					U7G1919		7/19/17 16:33	7/21/17 13:41	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	55.8 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 13:41	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 12:50	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	57.2 %	17.2-156					U7G1307		7/13/17 9:18	7/14/17 12:50	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	34.0 %	20.6-119					U7G1307		7/13/17 9:18	7/14/17 12:50	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Phenol	1.5	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4-Methylphenol	J	0.29	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Methapyrilene	J	0.13	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Phenanthrene	J	0.078	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Di-n-butyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Fluoranthene	J	0.078	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Pyrene		0.43	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzo (a) anthracene	J	0.071	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Chrysene	J	0.082	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Bis(2-ethylhexyl) phthalate		5.1	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/19/17 13:03	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: 2-Fluorophenol	S02	19.2 %	22-92				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: Phenol-d5		32.6 %	10-94				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	22.4 %	41-110				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: 2-Fluorobiphenyl	S02	31.7 %	40-92				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	46.6 %	49-138				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Surrogate: d14-Terphenyl		121 %	44-131				U7G1211		7/12/17 8:16	7/19/17 6:06	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Ethanol	2.0	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Carbon disulfide	0.061	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B	
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Acetone	0.80	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B	
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
2-Butanone (MEK)	0.37	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B	
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Trichloroethene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Tetrachloroethene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-3

DG10038-03 (Biosolids)

Sampled: 07/10/17 11:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
p-Isopropyltoluene		0.015	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:25	EPA 8260B
Surrogate: Dibromofluoromethane		106 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:25	EPA 8260B
Surrogate: Toluene-d8		105 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:25	EPA 8260B
Surrogate: 4-Bromofluorobenzene		84.1 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:25	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)	J	0.73	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		51	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		51	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony	J	0.38	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Arsenic		4.1	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Barium		270	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Beryllium	J	0.11	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Cadmium		1.1	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Chromium		24	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Cobalt		2.0	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Copper		260	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Lead		30	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Mercury		0.62	0.054	0.013	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:10	EPA 7471A
Molybdenum		14	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Nickel		15	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Selenium		9.6	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Silver		8.0	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Thallium	J	1.9	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Vanadium		59	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B
Zinc		840	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:35	EPA 6010B

Metals (STLC/Citrate Buffer)

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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony	J	0.026	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Arsenic	J	0.17	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Barium		5.3	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Beryllium	J	0.0022	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Cadmium	J	0.0059	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Chromium		0.32	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Cobalt	J	0.014	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Copper	J	0.033	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Lead	J	0.49	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Mercury	J	1.9	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:08	EPA 7470A
Molybdenum		0.16	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Nickel		0.26	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Selenium	J	0.21	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Silver	J	0.011	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Thallium	J	0.058	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Vanadium		1.1	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Zinc		18	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:19	EPA 6010B
Semi-Volatile Organics											
4,4'-DDD	J	0.0016	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
4,4'-DDE		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
alpha-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
beta-BHC	*, J	0.0032	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Endrin ketone		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A

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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	ND	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 13:56	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	99.8 %	II.4-122					U7G1919		7/19/17 16:33	7/21/17 13:56	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	57.0 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 13:56	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:05	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	62.8 %	17.2-156					U7G1307		7/13/17 9:18	7/14/17 13:05	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	39.2 %	20.6-II9					U7G1307		7/13/17 9:18	7/14/17 13:05	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Phenol	J	0.30	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C	

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Phenanthrene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Di-n-butyl phthalate	J	0.10	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Fluoranthene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Pyrene		0.60	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzo (a) anthracene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Chrysene	J	0.13	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Bis(2-ethylhexyl) phthalate		6.2	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/19/17 13:45	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: 2-Fluorophenol		31.9 %	22-92				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: Phenol-d5		55.2 %	10-94				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	32.0 %	41-110				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: 2-Fluorobiphenyl		71.7 %	40-92				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: 2,4,6-Tribromophenol		52.1 %	49-138				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Surrogate: d14-Terphenyl	S02	198 %	44-131				U7G1211		7/12/17 8:16	7/19/17 6:52	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Ethanol		ND	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Carbon disulfide		0.014	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Acetone		ND	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
2-Butanone (MEK)	0.067	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B	
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-4

DG10038-04 (Biosolids)

Sampled: 07/10/17 11:45

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2,4-Trimethylbenzene		0.014	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
p-Isopropyltoluene		0.044	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 11:50	EPA 8260B
Surrogate: Dibromofluoromethane		108 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:50	EPA 8260B
Surrogate: Toluene-d8		98.8 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:50	EPA 8260B
Surrogate: 4-Bromofluorobenzene		79.6 %	70-130				U7G1204		7/12/17 7:52	7/12/17 11:50	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)		1.2	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		62	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		62	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Arsenic		3.7	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Barium		240	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Beryllium	J	0.093	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Cadmium		0.96	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Chromium		21	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Cobalt		1.9	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Copper		240	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Lead		29	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Mercury		0.87	0.062	0.015	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:12	EPA 7471A
Molybdenum		13	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Nickel		14	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Selenium		7.5	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Silver		7.0	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Thallium	J	1.2	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Vanadium		52	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B
Zinc		750	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:45	EPA 6010B

Metals (STLC/Citrate Buffer)

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony	J	0.099	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Arsenic	J	0.071	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Barium		6.2	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Beryllium	J	0.0023	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Cadmium		ND	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Chromium		0.53	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Cobalt	J	0.013	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Copper	J	0.059	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Lead	J	0.44	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Mercury	J	2.0	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:09	EPA 7470A
Molybdenum		0.19	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Nickel		0.41	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Selenium	J	0.24	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Silver	J	0.0092	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Thallium	J	0.048	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Vanadium		1.5	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Zinc		27	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:29	EPA 6010B
Semi-Volatile Organics											
4,4'-DDD	J	0.0012	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
4,4'-DDE		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
alpha-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
beta-BHC	*	ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Endrin ketone	J	0.0019	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A

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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	ND	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:12	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	108 %	11.4-122					U7G1919		7/19/17 16:33	7/21/17 14:12	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	66.5 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 14:12	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/14/17 13:21	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	68.8 %	17.2-156					U7G1307		7/13/17 9:18	7/14/17 13:21	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	42.0 %	20.6-119					U7G1307		7/13/17 9:18	7/14/17 13:21	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Phenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant

Project Number: B94001.01

Project Manager: Vern Bennett

Reported:
8/1/2017

S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Phenanthrene	J	0.067	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Di-n-butyl phthalate	J	0.081	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Fluoranthene	J	0.060	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Pyrene		0.35	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzo (a) anthracene	J	0.060	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Chrysene	J	0.066	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Bis(2-ethylhexyl) phthalate		3.1	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/27/17 20:45	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: 2-Fluorophenol	S02	19.1 %	22-92				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: Phenol-d5		38.2 %	10-94				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	18.7 %	41-110				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: 2-Fluorobiphenyl		43.9 %	40-92				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	25.8 %	49-138				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Surrogate: d14-Terphenyl	S02	138 %	44-131				U7G1211		7/12/17 8:16	7/19/17 7:27	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Ethanol		ND	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Carbon disulfide	0.0092	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B	
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Acetone		ND	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B

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Fresno, CA 93721
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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
2-Butanone (MEK)		0.12	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-5

DG10038-05 (Biosolids)

Sampled: 07/10/17 12:00

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2,4-Trimethylbenzene	J	0.0039	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
p-Isopropyltoluene		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:14	EPA 8260B
Surrogate: Dibromofluoromethane		105 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:14	EPA 8260B
Surrogate: Toluene-d8		100 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:14	EPA 8260B
Surrogate: 4-Bromofluorobenzene		88.3 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:14	EPA 8260B

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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)		2.4	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		83	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		83	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Arsenic		2.9	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Barium		290	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Beryllium	J	0.12	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Cadmium		1.3	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Chromium		25	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Cobalt		2.4	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Copper		280	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Lead		33	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Mercury		1.1	0.080	0.019	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:15	EPA 7471A
Molybdenum		15	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Nickel		16	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Selenium		7.2	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Silver		7.8	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Thallium	J	1.2	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Vanadium		63	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B
Zinc		940	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 2:54	EPA 6010B

Metals (STLC/Citrate Buffer)

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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony	J	0.086	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Arsenic		0.36	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Barium		5.6	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Beryllium	J	0.0028	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Cadmium	J	0.011	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Chromium		0.77	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Cobalt	J	0.036	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Copper		0.16	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Lead	J	0.45	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Mercury	J	2.6	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:11	EPA 7470A
Molybdenum		0.39	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Nickel		0.63	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Selenium	J	0.27	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Silver	J	0.021	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Thallium	J	0.15	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Vanadium		2.0	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Zinc		46	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:38	EPA 6010B
Semi-Volatile Organics											
4,4'-DDD		ND	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
4,4'-DDE	J	0.0074	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
alpha-Chlordane	J	0.0080	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
beta-BHC	*	ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Dieldrin		0.012	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Endrin ketone		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A

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Juliane Adams, Director of Analytical Chemistry

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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	0.012	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:27	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	91.5 %	II.4-122					U7G1919		7/19/17 16:33	7/21/17 14:27	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	76.4 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 14:27	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:08	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	67.6 %	17.2-156					U7G1307		7/13/17 9:18	7/18/17 10:08	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	44.0 %	20.6-II9					U7G1307		7/13/17 9:18	7/18/17 10:08	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Phenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Phenanthrene	J	0.091	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Di-n-butyl phthalate	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Fluoranthene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Pyrene		0.56	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzo (a) anthracene	J	0.096	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Chrysene	J	0.11	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Bis(2-ethylhexyl) phthalate		4.2	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/27/17 21:20	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: 2-Fluorophenol	S02	17.4 %	22-92				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: Phenol-d5		32.0 %	10-94				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	23.2 %	41-110				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: 2-Fluorobiphenyl	S02	34.4 %	40-92				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	32.2 %	49-138				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Surrogate: d14-Terphenyl		119 %	44-131				U7G1211		7/12/17 8:16	7/19/17 8:02	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Ethanol		ND	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Carbon disulfide	0.0082	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B	
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Acetone	0.48	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B	
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B

Moore Twinning Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
2-Butanone (MEK)	0.14	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B	
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-6

DG10038-06 (Biosolids)

Sampled: 07/10/17 12:15

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
p-Isopropyltoluene		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 12:39	EPA 8260B
Surrogate: Dibromofluoromethane		104 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:39	EPA 8260B
Surrogate: Toluene-d8		96.4 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:39	EPA 8260B
Surrogate: 4-Bromofluorobenzene		95.0 %	70-130				U7G1204		7/12/17 7:52	7/12/17 12:39	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Inorganics											
Cyanide (total)		1.2	1.0	0.45	mg/kg	1	U7G1402	JTN	7/14/17 6:12	7/14/17 13:36	EPA 9014
% Solids		62	1.0	0.10	%	1	U7G1809	ACY	7/18/17 11:10	7/19/17 7:20	% Calculation
Total Solids		62	0.10		%	1	U7G1808	ACY	7/18/17 11:03	7/19/17 8:20	SM 2540G
Metals (Total)											
Antimony		ND	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Arsenic	J	1.9	2.0	0.22	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Barium		130	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Beryllium	J	0.046	0.40	0.032	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Cadmium		0.58	0.40	0.023	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Chromium		12	2.0	0.078	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Cobalt		0.99	0.80	0.022	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Copper		130	2.0	0.069	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Lead		17	2.0	0.16	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Mercury		0.89	0.075	0.018	mg/kg dry	1	U7G1901	JTN	7/20/17 6:19	7/20/17 13:17	EPA 7471A
Molybdenum		8.1	2.0	0.13	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Nickel		8.4	2.0	0.091	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Selenium	J	4.8	5.0	0.36	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Silver		3.9	2.0	0.10	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Vanadium		29	2.5	0.38	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B
Zinc		420	2.0	0.060	mg/kg dry	1	U7G1120	DAR	7/14/17 9:45	7/20/17 3:04	EPA 6010B

Metals (STLC/Citrate Buffer)

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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Antimony	J	0.071	0.10	0.026	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Arsenic	J	0.081	0.20	0.036	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Barium		6.2	0.20	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Beryllium	J	0.0033	0.020	0.00020	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Cadmium		ND	0.020	0.0016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Chromium		0.50	0.10	0.0070	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Cobalt		ND	0.040	0.0052	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Copper	J	0.042	0.10	0.0064	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Lead	J	0.20	0.50	0.016	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Mercury	J	2.1	6.0	1.0	µg/L	1	U7G2802	JTN	7/28/17 6:19	7/28/17 13:13	EPA 7470A
Molybdenum		0.16	0.10	0.0068	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Nickel		0.39	0.10	0.034	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Selenium		0.47	0.40	0.060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Silver	J	0.019	0.10	0.0060	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Thallium	J	0.094	0.40	0.0040	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Vanadium		1.5	0.20	0.014	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Zinc		22	0.10	0.0080	mg/L	1	U7G2406	DAR	7/24/17 10:22	7/28/17 11:47	EPA 6010B
Semi-Volatile Organics											
4,4'-DDD		ND	0.0033	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
4,4'-DDE		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
4,4'-DDT		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Aldrin		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
alpha-BHC		ND	0.010	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
alpha-Chlordane	J	0.0028	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
beta-BHC	*	ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Chlordane (tech)		ND	0.036	0.036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
delta-BHC		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Dieldrin		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endosulfan I		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Trifluralin		ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endosulfan II		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endosulfan sulfate		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endrin	*	ND	0.010	0.0036	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endrin aldehyde		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Endrin ketone		ND	0.010	0.0012	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
gamma-BHC (Lindane)	*	ND	0.010	0.0072	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
gamma-Chlordane		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Heptachlor	*	ND	0.010	0.0096	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Heptachlor epoxide		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Methoxychlor		ND	0.010	0.0024	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Toxaphene		ND	0.020	0.0060	mg/kg	1	U7G1919	DPV	7/19/17 16:33	7/21/17 14:42	EPA 8081A
Surrogate: Decachlorobiphenyl (DCB)	20.1 %	II.4-122					U7G1919		7/19/17 16:33	7/21/17 14:42	EPA 8081A
Surrogate: Tetrachloro-meta-xylene (TMX)	49.8 %	8.5-170					U7G1919		7/19/17 16:33	7/21/17 14:42	EPA 8081A
PCB-1016		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1221		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1232		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1242		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1248		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1254		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
PCB-1260		ND	0.020	0.013	mg/kg	1	U7G1307	DPV	7/13/17 9:18	7/18/17 10:24	EPA 8082
Surrogate: Decachlorobiphenyl (DCB)	55.6 %	17.2-156					U7G1307		7/13/17 9:18	7/18/17 10:24	EPA 8082
Surrogate: Tetrachloro-meta-xylene (TMX)	34.8 %	20.6-II9					U7G1307		7/13/17 9:18	7/18/17 10:24	EPA 8082
N-Nitrosodimethylamine		ND	0.33	0.051	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
N-Nitrosomethylalkylamine		ND	0.33	0.080	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Methyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
N-Nitrosodiethylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Ethyl Methanesulfonate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Phenol	2.5	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/27/17 21:55	EPA 8270C	
Bis(2-chloroethyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
2-Chlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
1,4-Dichlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzyl alcohol		ND	0.33	0.069	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Bis(2-chloroisopropyl)ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
2-Methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Acetophenone		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
N-Nitrosopyrrolidine		ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Hexachloroethane		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
o-Toluidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4-Methylphenol		ND	0.33	0.087	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
N-Nitrosodi-n-propylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Nitrobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
N-Nitrosopiperidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Isophorone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2-Nitrophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4-Dimethylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Bis(2-chloroethoxy)methane	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
1,2,4-Trichlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Benzoic acid	ND	0.33	0.054	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Safrole	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,6-Dichlorophenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
N-Nitrosodi-n-butylamine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
4-Chloro-3-methylphenol	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2-Methylnaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Hexachlorocyclopentadiene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4,5-Trichlorophenol	ND	0.33	0.074	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4,6-Trichlorophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2-Chloronaphthalene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
1,4-Naphthoquinone	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Dimethyl phthalate	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Acenaphthylene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
1,3-Dinitrobenzene	ND	0.33	0.086	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,6-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
3-Nitroaniline	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
5-Nitro-o-toluidine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
1,2-Diphenylhydrazine	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Acenaphthene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4-Dinitrophenol	ND	0.33	0.093	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
Pentachlorobenzene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
4-Nitrophenol	ND	0.33	0.12	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
1-Naphthylamine	ND	0.33	0.056	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	
2,4-Dinitrotoluene	ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C	

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
2-Naphthylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Fluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Diethyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Methapyrilene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4-Nitroaniline		ND	0.33	0.059	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4-Aminobiphenyl		ND	0.33	0.11	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Diphenylamine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
N-Nitrosodiphenylamine		ND	0.33	0.10	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Phenacetin		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Pentachloronitrobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Hexachlorobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Pentachlorophenol		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Phenanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Di-n-butyl phthalate	J	0.12	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Fluoranthene	J	0.082	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Pyrene		0.53	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Butyl benzyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
2-Acetylaminofluorene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzo (a) anthracene	J	0.090	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Chrysene	J	0.099	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Bis(2-ethylhexyl) phthalate		4.4	1.6	0.25	mg/kg	5	U7G1211	FFP	7/12/17 8:16	7/27/17 21:55	EPA 8270C
Di-n-octyl phthalate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzo (b) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzo (k) fluoranthene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzo (a) pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C

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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Semi-Volatile Organics											
3,3'-Dichlorobenzidine		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
3-Methylcholanthrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Benzo(ghi)perylene		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Pronamide		ND	0.33	0.050	mg/kg	1	U7G1211	FFP	7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: 2-Fluorophenol	S02	21.8 %	22-92				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: Phenol-d5		39.5 %	10-94				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	22.7 %	41-110				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: 2-Fluorobiphenyl		53.6 %	40-92				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	28.7 %	49-138				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Surrogate: d14-Terphenyl	S02	146 %	44-131				U7G1211		7/12/17 8:16	7/19/17 8:40	EPA 8270C
Volatile Organics											
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Ethanol	0.82	0.25	0.054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B	
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Carbon disulfide	0.0088	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B	
Iodomethane		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Acetone	0.32	0.10	0.0034	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B	
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chloroprene		ND	0.0050	0.00081	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Chloroform		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
2-Butanone (MEK)	0.090	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B	
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Trichloroethylene (TCE)		ND	0.0050	0.00050	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Tetrachloroethylene (PCE)		ND	0.0050	0.00070	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B

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Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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S-7

DG10038-07 (Biosolids)

Sampled: 07/10/17 12:30

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Volatile Organics											
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
p-Isopropyltoluene		ND	0.0050	0.00064	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U7G1204	GAB	7/12/17 7:52	7/12/17 13:04	EPA 8260B
Surrogate: Dibromofluoromethane		108 %	70-130				U7G1204		7/12/17 7:52	7/12/17 13:04	EPA 8260B
Surrogate: Toluene-d8		96.9 %	70-130				U7G1204		7/12/17 7:52	7/12/17 13:04	EPA 8260B
Surrogate: 4-Bromofluorobenzene		89.2 %	70-130				U7G1204		7/12/17 7:52	7/12/17 13:04	EPA 8260B

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MTA Environmental Division
2527 Fresno Street
Fresno CA, 93721

Project: Visalia Water Conservation Plant

Project Number: B94001.01

Project Manager: Vern Bennett

Reported:
8/1/2017

Notes and Definitions

- S02 Surrogate recovery was affected by the matrix.
- RPD3 The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
- RPD2 A high RPD was observed due to the low concentration of the target analyte.
- RPD The RPD result exceeded the QC control limits. However, both percent recoveries were acceptable.
- QM The spike recovery for this QC sample is outside of established control limits due to matrix interference.
- MS4 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration.
- MS3 Recovery for this analyte was biased low; associated blank spike recoveries are within range.
- MS1 Recovery for this analyte was affected by matrix.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
- BS2 Recovery for this analyte was biased low. Results were accepted based on duplicate results.
- BS1 Recovery for this analyte was biased high. Results were accepted based on duplicate results.
- BLK02 Detected in the blank; associated samples were either ND, or >10x the amount detected.
- * Closing CCV recovery for this analyte was biased low, due to matrix interference. The analysis was repeated with similar results. These analytes may be biased low in associated samples.
- ug/L micrograms per liter (parts per billion concentration units)
- mg/kg milligrams per kilogram (parts per million concentration units)
- mg/L milligrams per Liter (parts per million concentration units)
- ND Analyte NOT DETECTED at or above the Minimum Detection Limit (MDL)
- RPD Relative Percent Difference



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Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1402 - EPA 9014

Blank (U7G1402-BLK1)	Prepared & Analyzed: 07/14/17								
Cyanide (total)	ND	1.0	mg/kg						
LCS (U7G1402-BS1)	Prepared & Analyzed: 07/14/17								
Cyanide (total)	6.60	1.0	mg/kg	6.00	110	80-120		20	
LCS Dup (U7G1402-BSD1)	Prepared & Analyzed: 07/14/17								
Cyanide (total)	6.36	1.0	mg/kg	6.00	106	80-120	3.70	20	
Matrix Spike (U7G1402-MS1)	Source: DG10038-01		Prepared & Analyzed: 07/14/17						
Cyanide (total)	9.03	1.0	mg/kg	5.94	5.28	63.1	80-120	20	MS3
Matrix Spike Dup (U7G1402-MSD1)	Source: DG10038-01		Prepared & Analyzed: 07/14/17						
Cyanide (total)	9.24	1.0	mg/kg	6.16	5.28	64.3	80-120	2.30	20

Batch U7G1808 - SM 2540G

Blank (U7G1808-BLK1)	Prepared: 07/18/17 Analyzed: 07/19/17								
Total Solids	ND	0.10	%						
Duplicate (U7G1808-DUP1)	Source: DG10038-01		Prepared: 07/18/17 Analyzed: 07/19/17						
Total Solids	78.2	0.10	%	78.8		0.681	20		
Duplicate (U7G1808-DUP2)	Source: DG11072-07		Prepared: 07/18/17 Analyzed: 07/19/17						
Total Solids	55.6	0.10	%	57.7		3.79	20		

Batch U7G1809 - % Calculation

Blank (U7G1809-BLK1)	Prepared: 07/18/17 Analyzed: 07/19/17								
% Solids	ND	1.0	%						
Duplicate (U7G1809-DUP1)	Source: DG10038-01		Prepared: 07/18/17 Analyzed: 07/19/17						
% Solids	78.2	1.0	%	78.8		0.679	20		



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Metals (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1120 - EPA 6010B

Blank (U7G1120-BLK1)				Prepared: 07/14/17 Analyzed: 07/20/17					
Cadmium	0.0307	0.40	mg/kg wet						J
Beryllium	ND	0.40	mg/kg wet						
Lead	ND	2.0	mg/kg wet						
Zinc	ND	2.0	mg/kg wet						
Copper	0.0848	2.0	mg/kg wet						J
Vanadium	ND	2.5	mg/kg wet						
Nickel	ND	2.0	mg/kg wet						
Antimony	0.230	2.0	mg/kg wet						J
Cobalt	ND	0.80	mg/kg wet						
Molybdenum	ND	2.0	mg/kg wet						
Silver	ND	2.0	mg/kg wet						
Barium	ND	2.0	mg/kg wet						
Selenium	0.381	5.0	mg/kg wet						J
Thallium	ND	5.0	mg/kg wet						
Arsenic	ND	2.0	mg/kg wet						
Chromium	ND	2.0	mg/kg wet						

LCS (U7G1120-BS1)				Prepared: 07/14/17 Analyzed: 07/20/17				
Lead	21.3	2.0	mg/kg wet	20.0	107	70-130	20	
Cobalt	8.58	0.80	mg/kg wet	8.00	107	75-125	20	
Silver	21.1	2.0	mg/kg wet	20.0	105	75-125	20	
Antimony	20.3	2.0	mg/kg wet	20.0	102	75-125	20	
Vanadium	42.3	2.5	mg/kg wet	40.0	106	75-125	20	
Selenium	80.2	5.0	mg/kg wet	80.0	100	75-125	20	
Beryllium	4.09	0.40	mg/kg wet	4.00	102	75-125	20	
Cadmium	4.08	0.40	mg/kg wet	4.00	102	75-125	20	
Zinc	20.6	2.0	mg/kg wet	20.0	103	75-125	20	
Copper	22.4	2.0	mg/kg wet	20.0	112	75-125	20	
Nickel	21.0	2.0	mg/kg wet	20.0	105	75-125	20	
Molybdenum	22.3	2.0	mg/kg wet	20.0	112	75-125	20	
Barium	40.6	2.0	mg/kg wet	40.0	101	75-125	20	
Chromium	20.6	2.0	mg/kg wet	20.0	103	75-125	20	
Arsenic	41.1	2.0	mg/kg wet	40.0	103	75-125	20	
Thallium	80.2	5.0	mg/kg wet	80.0	100	75-125	20	

LCS Dup (U7G1120-BSD1)	Prepared: 07/14/17 Analyzed: 07/20/17				
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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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Metals (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1120 - EPA 6010B

LCS Dup (U7G1120-BSD1)	Prepared: 07/14/17 Analyzed: 07/20/17							
Vanadium	42.9	2.5	mg/kg wet	40.0	107	75-125	1.34	20
Beryllium	4.10	0.40	mg/kg wet	4.00	102	75-125	0.0481	20
Cadmium	4.03	0.40	mg/kg wet	4.00	101	75-125	1.41	20
Barium	41.4	2.0	mg/kg wet	40.0	103	75-125	1.89	20
Silver	21.0	2.0	mg/kg wet	20.0	105	75-125	0.316	20
Zinc	20.6	2.0	mg/kg wet	20.0	103	75-125	0.103	20
Cobalt	8.57	0.80	mg/kg wet	8.00	107	75-125	0.0231	20
Thallium	82.5	5.0	mg/kg wet	80.0	103	75-125	2.91	20
Selenium	80.0	5.0	mg/kg wet	80.0	100	75-125	0.292	20
Copper	22.4	2.0	mg/kg wet	20.0	112	75-125	0.330	20
Chromium	20.7	2.0	mg/kg wet	20.0	104	75-125	0.763	20
Lead	21.6	2.0	mg/kg wet	20.0	108	70-130	1.11	20
Molybdenum	22.4	2.0	mg/kg wet	20.0	112	75-125	0.296	20
Arsenic	39.8	2.0	mg/kg wet	40.0	99.4	75-125	3.29	20
Antimony	20.3	2.0	mg/kg wet	20.0	102	75-125	0.0181	20
Nickel	20.8	2.0	mg/kg wet	20.0	104	75-125	0.974	20

Matrix Spike (U7G1120-MS1)	Source: DF30035-01 Prepared: 07/14/17 Analyzed: 07/20/17							
Lead	28.1	2.0	mg/kg wet	20.1	8.85	96.2	70-130	20
Zinc	75.1	2.0	mg/kg wet	20.1	57.0	90.6	75-125	20
Nickel	77.5	2.0	mg/kg wet	20.1	59.9	88.1	75-125	20
Copper	44.2	2.0	mg/kg wet	20.1	22.2	110	75-125	20
Barium	277	2.0	mg/kg wet	40.1	265	31.2	75-125	20
Molybdenum	17.1	2.0	mg/kg wet	20.1	ND	85.2	75-125	20
Thallium	80.0	5.0	mg/kg wet	80.2	ND	99.7	75-125	20
Arsenic	42.3	2.0	mg/kg wet	40.1	3.93	95.7	75-125	20
Antimony	2.87	2.0	mg/kg wet	20.1	ND	14.3	75-125	20
Chromium	76.2	2.0	mg/kg wet	20.1	55.0	106	75-125	20
Selenium	78.4	5.0	mg/kg wet	80.2	0.748	96.8	75-125	20
Cadmium	4.12	0.40	mg/kg wet	4.01	0.164	98.6	75-125	20
Vanadium	94.1	2.5	mg/kg wet	40.1	50.4	109	75-125	20
Beryllium	4.28	0.40	mg/kg wet	4.01	0.484	94.8	75-125	20
Silver	20.5	2.0	mg/kg wet	20.1	ND	102	75-125	20
Cobalt	17.1	0.80	mg/kg wet	8.02	9.67	92.6	75-125	20

Matrix Spike (U7G1120-MS2)	Source: DG11006-02 Prepared: 07/14/17 Analyzed: 07/20/17							
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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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Metals (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1120 - EPA 6010B

Matrix Spike (U7G1120-MS2)	Source: DG11006-02		Prepared: 07/14/17 Analyzed: 07/20/17						
Zinc	52.3	2.0	mg/kg wet	19.9	30.7	108	75-125		20
Chromium	29.0	2.0	mg/kg wet	19.9	8.62	102	75-125		20
Silver	19.9	2.0	mg/kg wet	19.9	ND	100	75-125		20
Nickel	25.8	2.0	mg/kg wet	19.9	5.82	100	75-125		20
Molybdenum	19.3	2.0	mg/kg wet	19.9	ND	96.6	75-125		20
Cobalt	11.8	0.80	mg/kg wet	7.98	3.79	100	75-125		20
Vanadium	65.9	2.5	mg/kg wet	39.9	24.0	105	75-125		20
Selenium	75.5	5.0	mg/kg wet	79.8	ND	94.7	75-125		20
Cadmium	4.00	0.40	mg/kg wet	3.99	0.0872	98.2	75-125		20
Arsenic	43.0	2.0	mg/kg wet	39.9	3.23	99.6	75-125		20
Antimony	4.88	2.0	mg/kg wet	19.9	ND	24.5	75-125		20 MS3
Thallium	81.4	5.0	mg/kg wet	79.8	1.33	100	75-125		20
Beryllium	4.27	0.40	mg/kg wet	3.99	0.290	99.9	75-125		20
Lead	21.5	2.0	mg/kg wet	19.9	2.64	94.8	70-130		20
Barium	156	2.0	mg/kg wet	39.9	110	114	75-125		20
Copper	29.8	2.0	mg/kg wet	19.9	8.29	108	75-125		20

Matrix Spike Dup (U7G1120-MSD1)	Source: DF30035-01		Prepared: 07/14/17 Analyzed: 07/20/17						
Lead	28.4	2.0	mg/kg wet	20.1	8.85	97.6	70-130	1.03	20
Silver	20.4	2.0	mg/kg wet	20.1	ND	102	75-125	0.444	20
Antimony	3.05	2.0	mg/kg wet	20.1	ND	15.2	75-125	5.93	20 MS3
Beryllium	4.25	0.40	mg/kg wet	4.01	0.484	93.8	75-125	0.856	20
Cadmium	4.08	0.40	mg/kg wet	4.01	0.164	97.6	75-125	1.00	20
Chromium	73.1	2.0	mg/kg wet	20.1	55.0	90.0	75-125	4.18	20
Nickel	77.1	2.0	mg/kg wet	20.1	59.9	86.1	75-125	0.540	20
Vanadium	92.6	2.5	mg/kg wet	40.1	50.4	105	75-125	1.62	20
Molybdenum	17.0	2.0	mg/kg wet	20.1	ND	84.9	75-125	0.357	20
Zinc	74.8	2.0	mg/kg wet	20.1	57.0	88.8	75-125	0.481	20
Barium	247	2.0	mg/kg wet	40.1	265	NR	75-125	11.6	20 MS4
Thallium	79.3	5.0	mg/kg wet	80.2	ND	98.9	75-125	0.875	20
Arsenic	42.5	2.0	mg/kg wet	40.1	3.93	96.1	75-125	0.316	20
Copper	44.0	2.0	mg/kg wet	20.1	22.2	108	75-125	0.514	20
Selenium	78.0	5.0	mg/kg wet	80.2	0.748	96.3	75-125	0.515	20
Cobalt	17.3	0.80	mg/kg wet	8.02	9.67	95.2	75-125	1.21	20

Matrix Spike Dup (U7G1120-MSD2)	Source: DG11006-02		Prepared: 07/14/17 Analyzed: 07/20/17						
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Juliane Adams, Director of Analytical Chemistry

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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Metals (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1120 - EPA 6010B

Matrix Spike Dup (U7G1120-MSD2)	Source: DG11006-02		Prepared: 07/14/17 Analyzed: 07/20/17							
Copper	30.3	2.0	mg/kg wet	19.9	8.29	110	75-125	1.85	20	
Nickel	26.3	2.0	mg/kg wet	19.9	5.82	103	75-125	1.99	20	
Selenium	75.4	5.0	mg/kg wet	79.8	ND	94.5	75-125	0.222	20	
Cadmium	4.00	0.40	mg/kg wet	3.99	0.0872	98.1	75-125	0.00502	20	
Lead	21.5	2.0	mg/kg wet	19.9	2.64	94.5	70-130	0.320	20	
Antimony	5.43	2.0	mg/kg wet	19.9	ND	27.2	75-125	10.7	20	MS3
Beryllium	4.17	0.40	mg/kg wet	3.99	0.290	97.2	75-125	2.53	20	
Barium	168	2.0	mg/kg wet	39.9	110	143	75-125	7.08	20	MS4
Arsenic	42.9	2.0	mg/kg wet	39.9	3.23	99.5	75-125	0.0786	20	
Zinc	53.8	2.0	mg/kg wet	19.9	30.7	115	75-125	2.71	20	
Molybdenum	19.2	2.0	mg/kg wet	19.9	ND	96.1	75-125	0.494	20	
Cobalt	12.1	0.80	mg/kg wet	7.98	3.79	104	75-125	2.56	20	
Silver	20.0	2.0	mg/kg wet	19.9	ND	100	75-125	0.213	20	
Thallium	80.9	5.0	mg/kg wet	79.8	1.33	99.8	75-125	0.584	20	
Vanadium	67.9	2.5	mg/kg wet	39.9	24.0	110	75-125	3.11	20	
Chromium	30.2	2.0	mg/kg wet	19.9	8.62	108	75-125	3.91	20	

Batch U7G1901 - EPA 7471A

Blank (U7G1901-BLK1)	Prepared & Analyzed: 07/20/17							
Mercury	ND	0.040	mg/kg wet					
LCS (U7G1901-BS1)	Prepared & Analyzed: 07/20/17							
Mercury	0.963	0.040	mg/kg wet	1.00	96.3	70-130	20	
LCS Dup (U7G1901-BSD1)	Prepared & Analyzed: 07/20/17							
Mercury	0.978	0.040	mg/kg wet	1.00	97.8	70-130	1.55	
Matrix Spike (U7G1901-MS1)	Source: DG13001-01		Prepared & Analyzed: 07/20/17					
Mercury	0.358	0.013	mg/kg wet	0.334	0.0538	90.8	70-130	20
Matrix Spike (U7G1901-MS2)	Source: DG19005-01		Prepared & Analyzed: 07/20/17					
Mercury	1.01	0.040	mg/kg wet	1.01	0.295	71.3	70-130	20
Matrix Spike Dup (U7G1901-MSD1)	Source: DG13001-01		Prepared & Analyzed: 07/20/17					
Mercury	0.366	0.013	mg/kg wet	0.333	0.0538	93.7	70-130	2.24
Matrix Spike Dup (U7G1901-MSD2)	Source: DG19005-01		Prepared & Analyzed: 07/20/17					
Mercury	0.993	0.040	mg/kg wet	0.990	0.295	70.5	70-130	1.77

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Metals (STLC/Citrate Buffer) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G2406 - EPA 6010B

Blank (U7G2406-BLK1)				Prepared: 07/24/17 Analyzed: 07/28/17				
Antimony	ND	0.10	mg/L					
Thallium	0.124	0.40	mg/L					J
Nickel	0.0478	0.10	mg/L					J
Selenium	ND	0.40	mg/L					
Molybdenum	ND	0.10	mg/L					
Lead	0.144	0.50	mg/L					J
Copper	0.0325	0.10	mg/L					J
Zinc	0.380	0.10	mg/L					BLK02
Cobalt	ND	0.040	mg/L					
Cadmium	0.00607	0.020	mg/L					J
Vanadium	0.0477	0.20	mg/L					J
Silver	ND	0.10	mg/L					
Chromium	0.0135	0.10	mg/L					J
Beryllium	0.000581	0.020	mg/L					J
Barium	0.642	0.20	mg/L					
Arsenic	ND	0.20	mg/L					

LCS (U7G2406-BS1)				Prepared: 07/24/17 Analyzed: 07/28/17				
Nickel	2.07	0.10	mg/L	2.00	103	75-125	20	
Beryllium	0.394	0.020	mg/L	0.400	98.4	75-125	20	
Vanadium	4.22	0.20	mg/L	4.00	106	75-125	20	
Thallium	9.14	0.40	mg/L	8.00	114	75-125	20	
Zinc	2.51	0.10	mg/L	2.00	126	75-125	20	BS1
Antimony	2.18	0.10	mg/L	2.00	109	75-125	20	
Chromium	2.19	0.10	mg/L	2.00	109	75-125	20	
Cobalt	0.812	0.040	mg/L	0.800	101	75-125	20	
Selenium	8.13	0.40	mg/L	8.00	102	75-125	20	
Arsenic	4.13	0.20	mg/L	4.00	103	75-125	20	
Copper	2.13	0.10	mg/L	2.00	106	75-125	20	
Molybdenum	2.09	0.10	mg/L	2.00	104	75-125	20	
Silver	2.06	0.10	mg/L	2.00	103	75-125	20	
Lead	2.14	0.50	mg/L	2.00	107	75-125	20	
Barium	4.86	0.20	mg/L	4.00	122	75-125	20	
Cadmium	0.416	0.020	mg/L	0.400	104	75-125	20	

LCS Dup (U7G2406-BSD1)	Prepared: 07/24/17 Analyzed: 07/28/17				
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Metals (STLC/Citrate Buffer) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G2406 - EPA 6010B

LCS Dup (U7G2406-BSD1)	Prepared: 07/24/17 Analyzed: 07/28/17							
Vanadium	4.02	0.20	mg/L	4.00	101	75-125	4.94	20
Silver	1.98	0.10	mg/L	2.00	98.8	75-125	4.14	20
Barium	4.64	0.20	mg/L	4.00	116	75-125	4.60	20
Cobalt	0.781	0.040	mg/L	0.800	97.6	75-125	3.84	20
Arsenic	4.08	0.20	mg/L	4.00	102	75-125	1.30	20
Beryllium	0.374	0.020	mg/L	0.400	93.6	75-125	5.02	20
Zinc	2.38	0.10	mg/L	2.00	119	75-125	5.32	20
Cadmium	0.396	0.020	mg/L	0.400	99.0	75-125	4.88	20
Molybdenum	2.00	0.10	mg/L	2.00	99.9	75-125	4.42	20
Copper	2.02	0.10	mg/L	2.00	101	75-125	5.07	20
Chromium	2.06	0.10	mg/L	2.00	103	75-125	5.67	20
Selenium	7.75	0.40	mg/L	8.00	96.9	75-125	4.73	20
Lead	1.91	0.50	mg/L	2.00	95.6	75-125	11.4	20
Nickel	1.98	0.10	mg/L	2.00	98.8	75-125	4.51	20
Thallium	8.60	0.40	mg/L	8.00	107	75-125	6.16	20
Antimony	2.06	0.10	mg/L	2.00	103	75-125	5.60	20

Duplicate (U7G2406-DUP1)	Source: DG10038-01	Prepared: 07/24/17 Analyzed: 07/28/17							
Chromium	0.726	0.10	mg/L	0.705		3.01	20		
Cobalt	0.0185	0.040	mg/L	0.0230		21.6	20	RPD2, J	
Antimony	ND	0.10	mg/L	0.0398			20		
Arsenic	0.263	0.20	mg/L	0.139		61.7	20	RPD2	
Copper	0.108	0.10	mg/L	0.157		36.8	20	RPD2	
Silver	0.0167	0.10	mg/L	ND			20	RPD2, J	
Vanadium	2.20	0.20	mg/L	2.02		8.63	20		
Thallium	0.244	0.40	mg/L	0.0674		113	20	RPD2, J	
Barium	6.08	0.20	mg/L	6.94		13.2	20		
Beryllium	0.00286	0.020	mg/L	0.00268		6.54	20	J	
Lead	0.397	0.50	mg/L	0.490		21.0	20	RPD2, J	
Molybdenum	0.299	0.10	mg/L	0.354		16.9	20		
Cadmium	0.00901	0.020	mg/L	0.0265		98.6	20	RPD2, J	
Selenium	0.371	0.40	mg/L	0.305		19.5	20	J	
Zinc	46.1	0.10	mg/L	47.1		2.20	20		
Nickel	0.606	0.10	mg/L	0.589		2.83	20		

Matrix Spike (U7G2406-MS1)	Source: DG10038-01	Prepared: 07/24/17 Analyzed: 07/28/17							
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Metals (STLC/Citrate Buffer) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G2406 - EPA 6010B

Matrix Spike (U7G2406-MS1)	Source: DG10038-01		Prepared: 07/24/17 Analyzed: 07/28/17						
Zinc	52.0	0.10	mg/L	2.00	47.1	248	75-125	20	MS4
Barium	11.3	0.20	mg/L	4.00	6.94	110	75-125	20	
Beryllium	0.383	0.020	mg/L	0.400	0.00268	95.0	75-125	20	
Cadmium	0.423	0.020	mg/L	0.400	0.0265	99.2	75-125	20	
Copper	2.34	0.10	mg/L	2.00	0.157	109	75-125	20	
Lead	2.64	0.50	mg/L	2.00	0.490	108	75-125	20	
Antimony	2.21	0.10	mg/L	2.00	0.0398	109	75-125	20	
Thallium	9.29	0.40	mg/L	8.00	0.0674	115	75-125	20	
Vanadium	6.41	0.20	mg/L	4.00	2.02	110	75-125	20	
Cobalt	0.829	0.040	mg/L	0.800	0.0230	101	75-125	20	
Arsenic	4.32	0.20	mg/L	4.00	0.139	104	75-125	20	
Silver	2.07	0.10	mg/L	2.00	ND	104	75-125	20	
Molybdenum	2.48	0.10	mg/L	2.00	0.354	106	75-125	20	
Chromium	2.74	0.10	mg/L	2.00	0.705	102	75-125	20	
Selenium	8.33	0.40	mg/L	8.00	0.305	100	75-125	20	
Nickel	2.56	0.10	mg/L	2.00	0.589	98.8	75-125	20	

Matrix Spike Dup (U7G2406-MSD1)	Source: DG10038-01		Prepared: 07/24/17 Analyzed: 07/28/17						
Antimony	2.19	0.10	mg/L	2.00	0.0398	108	75-125	1.00	20
Vanadium	6.45	0.20	mg/L	4.00	2.02	111	75-125	0.670	20
Arsenic	4.51	0.20	mg/L	4.00	0.139	109	75-125	4.37	20
Cobalt	0.813	0.040	mg/L	0.800	0.0230	98.7	75-125	2.03	20
Thallium	8.83	0.40	mg/L	8.00	0.0674	110	75-125	5.04	20
Lead	2.67	0.50	mg/L	2.00	0.490	109	75-125	0.872	20
Molybdenum	2.42	0.10	mg/L	2.00	0.354	103	75-125	2.41	20
Copper	2.36	0.10	mg/L	2.00	0.157	110	75-125	0.905	20
Nickel	2.61	0.10	mg/L	2.00	0.589	101	75-125	1.61	20
Cadmium	0.444	0.020	mg/L	0.400	0.0265	104	75-125	4.88	20
Beryllium	0.385	0.020	mg/L	0.400	0.00268	95.5	75-125	0.571	20
Chromium	2.77	0.10	mg/L	2.00	0.705	103	75-125	1.05	20
Selenium	8.65	0.40	mg/L	8.00	0.305	104	75-125	3.79	20
Barium	11.4	0.20	mg/L	4.00	6.94	112	75-125	0.860	20
Zinc	52.2	0.10	mg/L	2.00	47.1	255	75-125	0.245	20
Silver	2.08	0.10	mg/L	2.00	ND	104	75-125	0.479	20

Batch U7G2802 - EPA 7470A

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MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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Metals (STLC/Citrate Buffer) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (U7G2802-BLK1)						Prepared & Analyzed: 07/28/17				
Mercury	1.12	6.0	µg/L							J
LCS (U7G2802-BS1)						Prepared & Analyzed: 07/28/17				
Mercury	154	6.0	µg/L	150		103	80-120		20	
LCS Dup (U7G2802-BSD1)						Prepared & Analyzed: 07/28/17				
Mercury	143	6.0	µg/L	150		95.1	80-120	7.74	20	
Duplicate (U7G2802-DUP1)					Source: DG10038-01	Prepared & Analyzed: 07/28/17				
Mercury	2.94	6.0	µg/L			2.41		20.1	20	RPD2, J
Matrix Spike (U7G2802-MS1)					Source: DG10038-01	Prepared & Analyzed: 07/28/17				
Mercury	156	6.0	µg/L	150	2.41	102	80-120		20	
Matrix Spike Dup (U7G2802-MSD1)					Source: DG10038-01	Prepared & Analyzed: 07/28/17				
Mercury	164	6.0	µg/L	150	2.41	108	80-120	4.97	20	



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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1211 - EPA 8270C

Blank (U7G1211-BLK1)	Prepared: 07/12/17 Analyzed: 07/18/17					
Surrogate: 2-Fluorophenol	1.59		mg/kg	3.33	47.7	22-92
Surrogate: Phenol-d5	2.33		mg/kg	3.33	70.0	10-94
Surrogate: Nitrobenzene-d5	0.746		mg/kg	1.67	44.8	41-110
Surrogate: 2-Fluorobiphenyl	1.06		mg/kg	1.67	63.3	40-92
Surrogate: 2,4,6-Tribromophenol	2.14		mg/kg	3.33	64.2	49-138
Surrogate: d14-Terphenyl	1.39		mg/kg	1.67	83.1	44-131
N-Nitrosodimethylamine	ND	0.33	mg/kg			
N-Nitrosomethylalkylamine	ND	0.33	mg/kg			
Methyl Methanesulfonate	ND	0.33	mg/kg			
N-Nitrosodiethylamine	ND	0.33	mg/kg			
Ethyl Methanesulfonate	ND	0.33	mg/kg			
Phenol	ND	0.33	mg/kg			
Bis(2-chloroethyl)ether	ND	0.33	mg/kg			
2-Chlorophenol	ND	0.33	mg/kg			
1,4-Dichlorobenzene	ND	0.33	mg/kg			
Benzyl alcohol	ND	0.33	mg/kg			
Bis(2-chloroisopropyl)ether	ND	0.33	mg/kg			
2-Methylphenol	ND	0.33	mg/kg			
Acetophenone	ND	0.33	mg/kg			
N-Nitrosopyrrolidine	ND	0.33	mg/kg			
Hexachloroethane	ND	0.33	mg/kg			
o-Toluidine	ND	0.33	mg/kg			
4-Methylphenol	ND	0.33	mg/kg			
N-Nitrosodi-n-propylamine	ND	0.33	mg/kg			
Nitrobenzene	ND	0.33	mg/kg			
N-Nitrosopiperidine	ND	0.33	mg/kg			
Isophorone	ND	0.33	mg/kg			
2-Nitrophenol	ND	0.33	mg/kg			
2,4-Dimethylphenol	ND	0.33	mg/kg			
Bis(2-chloroethoxy)methane	ND	0.33	mg/kg			
2,4-Dichlorophenol	ND	0.33	mg/kg			
1,2,4-Trichlorobenzene	ND	0.33	mg/kg			
Benzoic acid	ND	0.33	mg/kg			
Safrole	ND	0.33	mg/kg			

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Juliane Adams, Director of Analytical Chemistry

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1211 - EPA 8270C

Blank (U7G1211-BLK1)	Prepared: 07/12/17 Analyzed: 07/18/17									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,6-Dichlorophenol	ND	0.33	mg/kg							
N-Nitrosodi-n-butylamine	ND	0.33	mg/kg							
4-Chloro-3-methylphenol	ND	0.33	mg/kg							
2-Methylnaphthalene	ND	0.33	mg/kg							
Hexachlorocyclopentadiene	ND	0.33	mg/kg							
2,4,5-Trichlorophenol	ND	0.33	mg/kg							
2,4,6-Trichlorophenol	ND	0.33	mg/kg							
2-Chloronaphthalene	ND	0.33	mg/kg							
2-Nitroaniline	ND	0.33	mg/kg							
1,4-Naphthoquinone	ND	0.33	mg/kg							
Dimethyl phthalate	ND	0.33	mg/kg							
Acenaphthylene	ND	0.33	mg/kg							
1,3-Dinitrobenzene	ND	0.33	mg/kg							
2,6-Dinitrotoluene	ND	0.33	mg/kg							
3-Nitroaniline	ND	0.33	mg/kg							
5-Nitro-o-toluidine	ND	0.33	mg/kg							
1,2-Diphenylhydrazine	ND	0.33	mg/kg							
Acenaphthene	ND	0.33	mg/kg							
2,4-Dinitrophenol	ND	0.33	mg/kg							
Pentachlorobenzene	ND	0.33	mg/kg							
4-Nitrophenol	ND	0.33	mg/kg							
1-Naphthylamine	ND	0.33	mg/kg							
2,4-Dinitrotoluene	ND	0.33	mg/kg							
2-Naphthylamine	ND	0.33	mg/kg							
2,3,4,6-Tetrachlorophenol	ND	0.33	mg/kg							
Fluorene	ND	0.33	mg/kg							
Diethyl phthalate	ND	0.33	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.33	mg/kg							
Methapyrilene	ND	0.33	mg/kg							
4-Nitroaniline	ND	0.33	mg/kg							
4-Aminobiphenyl	ND	0.33	mg/kg							
Diphenylamine	ND	0.33	mg/kg							
Benzidine	ND	0.33	mg/kg							
N-Nitrosodiphenylamine	ND	0.33	mg/kg							

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1211 - EPA 8270C

Blank (U7G1211-BLK1)	Prepared: 07/12/17 Analyzed: 07/18/17				
4,6-Dinitro-2-methylphenol	ND	0.33	mg/kg		
Phenacetin	ND	0.33	mg/kg		
Pentachloronitrobenzene	ND	0.33	mg/kg		
4-Bromophenyl phenyl ether	ND	0.33	mg/kg		
Hexachlorobenzene	ND	0.33	mg/kg		
Pentachlorophenol	ND	0.33	mg/kg		
Phenanthrene	ND	0.33	mg/kg		
Anthracene	ND	0.33	mg/kg		
Di-n-butyl phthalate	ND	0.33	mg/kg		
Fluoranthene	ND	0.33	mg/kg		
Pyrene	ND	0.33	mg/kg		
p-Dimethylaminoazobenzene	ND	0.33	mg/kg		
3,3'-Dimethylbenzidine	ND	0.33	mg/kg		
Butyl benzyl phthalate	ND	0.33	mg/kg		
2-Acetylaminofluorene	ND	0.33	mg/kg		
Benzo (a) anthracene	ND	0.33	mg/kg		
Chrysene	ND	0.33	mg/kg		
Bis(2-ethylhexyl) phthalate	ND	0.33	mg/kg		
Di-n-octyl phthalate	ND	0.33	mg/kg		
7,12-Dimethylbenz(a)anthracene	ND	0.33	mg/kg		
Benzo (b) fluoranthene	ND	0.33	mg/kg		
Benzo (k) fluoranthene	ND	0.33	mg/kg		
Benzo (a) pyrene	ND	0.33	mg/kg		
3,3'-Dichlorobenzidine	ND	0.33	mg/kg		
3-Methylcholanthrene	ND	0.33	mg/kg		
Indeno(1,2,3-cd)pyrene	ND	0.33	mg/kg		
Dibenz(a,h)anthracene	ND	0.33	mg/kg		
Benzo(ghi)perylene	ND	0.33	mg/kg		
O,O,O-Triethyl phosphorothioate	ND	0.33	mg/kg		
Pronamide	ND	0.33	mg/kg		

LCS (U7G1211-BS1)	Prepared: 07/12/17 Analyzed: 07/18/17				
Surrogate: 2-Fluorophenol	1.73	mg/kg	3.33	51.8	22-92
Surrogate: Phenol-d5	2.43	mg/kg	3.33	72.8	10-94
Surrogate: Nitrobenzene-d5	0.933	mg/kg	1.67	56.0	41-110

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Juliane Adams, Director of Analytical Chemistry

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1211 - EPA 8270C

LCS (U7G1211-BS1)		Prepared: 07/12/17 Analyzed: 07/18/17							
Surrogate: 2-Fluorobiphenyl	1.08		mg/kg	1.67		64.5	40-92		
Surrogate: 2,4,6-Tribromophenol	2.26		mg/kg	3.33		67.8	49-138		
Surrogate: d14-Terphenyl	1.28		mg/kg	1.67		77.1	44-131		
Phenol	1.04	0.33	mg/kg	1.67		62.3	5-112	20	
2-Chlorophenol	0.961	0.33	mg/kg	1.67		57.7	23-134	20	
1,4-Dichlorobenzene	0.424	0.33	mg/kg	0.833		50.8	20-124	20	RPD
N-Nitrosodi-n-propylamine	0.409	0.33	mg/kg	0.833		49.1	5-230	20	
1,2,4-Trichlorobenzene	0.457	0.33	mg/kg	0.833		54.9	44-142	20	
4-Chloro-3-methylphenol	1.02	0.33	mg/kg	1.67		61.4	22-147	20	
Acenaphthene	0.494	0.33	mg/kg	0.833		59.3	47-145	20	
2,4-Dinitrotoluene	0.338	0.33	mg/kg	0.833		40.6	39-139	20	
Pyrene	0.527	0.33	mg/kg	0.833		63.3	52-115	20	

LCS Dup (U7G1211-BSD1)		Prepared: 07/12/17 Analyzed: 07/18/17							
Surrogate: 2-Fluorophenol	1.51		mg/kg	3.33		45.3	22-92		
Surrogate: Phenol-d5	2.28		mg/kg	3.33		68.4	10-94		
Surrogate: Nitrobenzene-d5	0.864		mg/kg	1.67		51.8	41-110		
Surrogate: 2-Fluorobiphenyl	1.06		mg/kg	1.67		63.3	40-92		
Surrogate: 2,4,6-Tribromophenol	2.27		mg/kg	3.33		68.1	49-138		
Surrogate: d14-Terphenyl	1.42		mg/kg	1.67		85.1	44-131		
Phenol	0.961	0.33	mg/kg	1.67		57.7	5-112	7.64	20
2-Chlorophenol	0.877	0.33	mg/kg	1.67		52.6	23-134	9.20	20
1,4-Dichlorobenzene	0.304	0.33	mg/kg	0.833		36.5	20-124	32.8	20 RPD, J
N-Nitrosodi-n-propylamine	0.372	0.33	mg/kg	0.833		44.6	5-230	9.51	20
1,2,4-Trichlorobenzene	0.421	0.33	mg/kg	0.833		50.6	44-142	8.13	20
4-Chloro-3-methylphenol	1.02	0.33	mg/kg	1.67		60.9	22-147	0.801	20
Acenaphthene	0.494	0.33	mg/kg	0.833		59.3	47-145	0.0472	20
2,4-Dinitrotoluene	0.271	0.33	mg/kg	0.833		32.5	39-139	22.1	20 BS2, J
Pyrene	0.559	0.33	mg/kg	0.833		67.1	52-115	5.86	20

Matrix Spike (U7G1211-MS1)		Source: DG10038-01 Prepared: 07/12/17 Analyzed: 07/19/17						
Surrogate: 2-Fluorophenol	0.913		mg/kg	3.33		27.4	22-92	
Surrogate: Phenol-d5	1.47		mg/kg	3.33		44.2	10-94	
Surrogate: Nitrobenzene-d5	0.473		mg/kg	1.67		28.4	41-110	S02
Surrogate: 2-Fluorobiphenyl	1.16		mg/kg	1.67		69.8	40-92	
Surrogate: 2,4,6-Tribromophenol	1.04		mg/kg	3.33		31.3	49-138	S02

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1211 - EPA 8270C

Matrix Spike (U7G1211-MS1)	Source: DG10038-01	Prepared: 07/12/17 Analyzed: 07/19/17							
Surrogate: d14-Terphenyl	2.74		mg/kg	1.67	164	44-131			S02
Phenol	0.650	0.33	mg/kg	1.67	ND	39.0	5-112		20
2-Chlorophenol	0.564	0.33	mg/kg	1.67	ND	33.8	23-134		20
1,4-Dichlorobenzene	0.215	0.33	mg/kg	0.833	ND	25.8	20-124		20
N-Nitrosodi-n-propylamine	0.305	0.33	mg/kg	0.833	ND	36.6	5-230		20
1,2,4-Trichlorobenzene	0.425	0.33	mg/kg	0.833	ND	51.0	44-142		20
4-Chloro-3-methylphenol	0.926	0.33	mg/kg	1.67	ND	55.6	22-147		20
Acenaphthene	0.427	0.33	mg/kg	0.833	ND	51.2	47-145		20
2,4-Dinitrotoluene	0.129	0.33	mg/kg	0.833	ND	15.5	39-139		20
Pyrene	1.47	1.6	mg/kg	0.833	0.544	111	52-115		20

Matrix Spike Dup (U7G1211-MSD1)	Source: DG10038-01	Prepared: 07/12/17 Analyzed: 07/19/17							
Surrogate: 2-Fluorophenol	0.734		mg/kg	3.33	22.0	22-92			
Surrogate: Phenol-d5	1.24		mg/kg	3.33	37.2	10-94			
Surrogate: Nitrobenzene-d5	0.464		mg/kg	1.67	27.8	41-110			
Surrogate: 2-Fluorobiphenyl	0.655		mg/kg	1.67	39.3	40-92			
Surrogate: 2,4,6-Tribromophenol	0.973		mg/kg	3.33	29.2	49-138			
Surrogate: d14-Terphenyl	2.43		mg/kg	1.67	146	44-131			
Phenol	0.553	0.33	mg/kg	1.67	ND	33.2	5-112	16.2	20
2-Chlorophenol	0.442	0.33	mg/kg	1.67	ND	26.5	23-134	24.1	20
1,4-Dichlorobenzene	0.165	0.33	mg/kg	0.833	ND	19.8	20-124	26.2	20
N-Nitrosodi-n-propylamine	0.259	0.33	mg/kg	0.833	ND	31.1	5-230	16.0	20
1,2,4-Trichlorobenzene	0.257	0.33	mg/kg	0.833	ND	30.9	44-142	49.1	20
4-Chloro-3-methylphenol	0.878	0.33	mg/kg	1.67	ND	52.7	22-147	5.29	20
Acenaphthene	0.290	0.33	mg/kg	0.833	ND	34.8	47-145	38.2	20
2,4-Dinitrotoluene	ND	0.33	mg/kg	0.833	ND		39-139		20
Pyrene	1.92	1.6	mg/kg	0.833	0.544	165	52-115	26.2	20

Batch U7G1307 - EPA 8082

Blank (U7G1307-BLK1)	Prepared & Analyzed: 07/13/17					
Surrogate: Decachlorobiphenyl (DCB)	0.0452		mg/kg	0.0500	90.4	17.2-156
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0284		mg/kg	0.0500	56.8	20.6-119
PCB-1016	ND	0.020	mg/kg			
PCB-1221	ND	0.020	mg/kg			

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1307 - EPA 8082

Blank (U7G1307-BLK1)	Prepared & Analyzed: 07/13/17
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PCB-1232	ND	0.020	mg/kg							
PCB-1242	ND	0.020	mg/kg							
PCB-1248	ND	0.020	mg/kg							
PCB-1254	ND	0.020	mg/kg							
PCB-1260	ND	0.020	mg/kg							

LCS (U7G1307-BS1)	Prepared & Analyzed: 07/13/17
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Surrogate: Decachlorobiphenyl (DCB)	0.0366	mg/kg	0.0500	73.2	17.2-156					
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0274	mg/kg	0.0500	54.8	20.6-119					
PCB-1016	0.108	0.020	mg/kg	0.150	71.9	45-117		20		
PCB-1260	0.116	0.020	mg/kg	0.150	77.2	45-117		20		

LCS Dup (U7G1307-BSD1)	Prepared & Analyzed: 07/13/17
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Surrogate: Decachlorobiphenyl (DCB)	0.0406	mg/kg	0.0500	81.2	17.2-156					
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0346	mg/kg	0.0500	69.2	20.6-119					
PCB-1016	0.123	0.020	mg/kg	0.150	82.1	45-117	13.3	20		
PCB-1260	0.125	0.020	mg/kg	0.150	83.3	45-117	7.64	20		

Matrix Spike (U7G1307-MS1)	Source: DG13001-01	Prepared & Analyzed: 07/13/17
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Surrogate: Decachlorobiphenyl (DCB)	0.0386	mg/kg	0.0500	77.2	17.2-156					
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0288	mg/kg	0.0500	57.6	20.6-119					
PCB-1016	0.115	0.020	mg/kg	0.150	ND	76.7	45-117		20	
PCB-1260	0.118	0.020	mg/kg	0.150	ND	78.9	45-117		20	

Matrix Spike Dup (U7G1307-MSD1)	Source: DG13001-01	Prepared & Analyzed: 07/13/17
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Surrogate: Decachlorobiphenyl (DCB)	0.0380	mg/kg	0.0500	76.0	17.2-156					
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0270	mg/kg	0.0500	54.0	20.6-119					
PCB-1016	0.115	0.020	mg/kg	0.150	ND	76.9	45-117	0.347	20	
PCB-1260	0.119	0.020	mg/kg	0.150	ND	79.5	45-117	0.673	20	

Batch U7G1919 - EPA 8081A

Blank (U7G1919-BLK1)	Prepared: 07/19/17 Analyzed: 07/20/17
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Surrogate: Decachlorobiphenyl (DCB)	0.0446	mg/kg	0.0500	89.3	11.4-122					
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0292	mg/kg	0.0500	58.5	8.5-170					
4,4'-DDD	ND	0.0033	mg/kg							
4,4'-DDE	ND	0.010	mg/kg							

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

MTA Environmental Division 2527 Fresno Street Fresno CA, 93721	Project: Visalia Water Conservation Plant Project Number: B94001.01 Project Manager: Vern Bennett	Reported: 8/1/2017
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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1919 - EPA 8081A

Blank (U7G1919-BLK1)	Prepared: 07/19/17 Analyzed: 07/20/17					
4,4'-DDT	ND	0.010	mg/kg			
Aldrin	ND	0.010	mg/kg			
alpha-BHC	ND	0.010	mg/kg			
alpha-Chlordane	ND	0.010	mg/kg			
beta-BHC	ND	0.010	mg/kg			
Chlordane (tech)	ND	0.036	mg/kg			
delta-BHC	ND	0.010	mg/kg			
Dieldrin	ND	0.010	mg/kg			
Endosulfan I	ND	0.010	mg/kg			
Trifluralin	ND	0.010	mg/kg			
Endosulfan II	ND	0.010	mg/kg			
Endosulfan sulfate	ND	0.010	mg/kg			
Endrin	ND	0.010	mg/kg			
Endrin aldehyde	ND	0.010	mg/kg			
Endrin ketone	ND	0.010	mg/kg			
gamma-BHC (Lindane)	ND	0.010	mg/kg			
gamma-Chlordane	ND	0.010	mg/kg			
Heptachlor	ND	0.010	mg/kg			
Heptachlor epoxide	ND	0.010	mg/kg			
Methoxychlor	ND	0.010	mg/kg			
Toxaphene	ND	0.020	mg/kg			

LCS (U7G1919-BS1)	Prepared: 07/19/17 Analyzed: 07/20/17					
Surrogate: Decachlorobiphenyl (DCB)	0.0440		mg/kg	0.0500	88.0	11.4-122
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0293		mg/kg	0.0500	58.7	8.5-170
4,4'-DDT	0.0387	0.010	mg/kg	0.0500	77.4	25-160
Aldrin	0.0305	0.010	mg/kg	0.0500	61.0	42-122
Dieldrin	0.0377	0.010	mg/kg	0.0500	75.3	36-146
Endrin	0.0387	0.010	mg/kg	0.0500	77.4	30-147
gamma-BHC (Lindane)	0.0353	0.010	mg/kg	0.0500	70.6	19-140
Heptachlor	0.0348	0.010	mg/kg	0.0500	69.5	34-111

LCS Dup (U7G1919-BSD1)	Prepared: 07/19/17 Analyzed: 07/20/17					
Surrogate: Decachlorobiphenyl (DCB)	0.0416		mg/kg	0.0500	83.2	11.4-122
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0281		mg/kg	0.0500	56.3	8.5-170
4,4'-DDT	0.0369	0.010	mg/kg	0.0500	73.8	25-160
					4.77	20

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1919 - EPA 8081A

LCS Dup (U7G1919-BSD1)		Prepared: 07/19/17 Analyzed: 07/20/17							
Aldrin	0.0300	0.010	mg/kg	0.0500		59.9	42-122	1.73	20
Dieldrin	0.0359	0.010	mg/kg	0.0500		71.8	36-146	4.75	20
Endrin	0.0372	0.010	mg/kg	0.0500		74.4	30-147	3.92	20
gamma-BHC (Lindane)	0.0324	0.010	mg/kg	0.0500		64.8	19-140	8.64	20
Heptachlor	0.0320	0.010	mg/kg	0.0500		63.9	34-111	8.36	20
Duplicate (U7G1919-DUP1)		Source: DG10038-03 Prepared: 07/19/17 Analyzed: 07/21/17							
Surrogate: Decachlorobiphenyl (DCB)	0.0527		mg/kg	0.0500		105	11.4-122		
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0283		mg/kg	0.0500		56.6	8.5-170		
4,4'-DDD	0.00180	0.0033	mg/kg		0.00183			1.28	200 J
4,4'-DDE	ND	0.010	mg/kg		ND				200
4,4'-DDT	ND	0.010	mg/kg		ND				200
Aldrin	ND	0.010	mg/kg		ND				200
alpha-BHC	ND	0.010	mg/kg		ND				200
alpha-Chlordane	0.00428	0.010	mg/kg		0.00543			23.9	200 J
beta-BHC	ND	0.010	mg/kg		0.00423				200
Chlordane (tech)	ND	0.036	mg/kg		ND				200
delta-BHC	ND	0.010	mg/kg		ND				200
Dieldrin	ND	0.010	mg/kg		ND				200
Endosulfan I	ND	0.010	mg/kg		ND				200
Trifluralin	ND	0.010	mg/kg		ND				200
Endosulfan II	ND	0.010	mg/kg		ND				200
Endosulfan sulfate	ND	0.010	mg/kg		ND				200
Endrin	ND	0.010	mg/kg		ND				200
Endrin aldehyde	ND	0.010	mg/kg		ND				200
Endrin ketone	0.00170	0.010	mg/kg		0.00191			11.3	200 J
gamma-BHC (Lindane)	ND	0.010	mg/kg		ND				200
gamma-Chlordane	ND	0.010	mg/kg		ND				200
Heptachlor	ND	0.010	mg/kg		ND				200
Heptachlor epoxide	ND	0.010	mg/kg		ND				200
Methoxychlor	ND	0.010	mg/kg		ND				200
Toxaphene	ND	0.020	mg/kg		ND				200

Matrix Spike (U7G1919-MS1)		Source: DG10038-03 Prepared: 07/19/17 Analyzed: 07/21/17						
Surrogate: Decachlorobiphenyl (DCB)	0.0476		mg/kg	0.0500		95.3	11.4-122	
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0224		mg/kg	0.0500		44.8	8.5-170	

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Semi-Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1919 - EPA 8081A

Matrix Spike (U7G1919-MS1)	Source: DG10038-03	Prepared: 07/19/17 Analyzed: 07/21/17							
4,4'-DDT	0.0156	0.010	mg/kg	0.0500	ND	31.1	25-160	20	
Aldrin	0.0245	0.010	mg/kg	0.0500	ND	48.9	42-122	20	
Dieldrin	0.0395	0.010	mg/kg	0.0500	ND	79.0	36-146	20	
Endrin	0.0290	0.010	mg/kg	0.0500	ND	58.1	30-147	20	
gamma-BHC (Lindane)	0.0351	0.010	mg/kg	0.0500	ND	70.2	19-140	20	
Heptachlor	0.0205	0.010	mg/kg	0.0500	ND	41.0	34-111	20	
Matrix Spike Dup (U7G1919-MSD1)	Source: DG10038-03	Prepared: 07/19/17 Analyzed: 07/21/17							
Surrogate: Decachlorobiphenyl (DCB)	0.0539		mg/kg	0.0500		108	11.4-122		
Surrogate: Tetrachloro-meta-xylene (TMX)	0.0242		mg/kg	0.0500		48.4	8.5-170		
4,4'-DDT	0.0131	0.010	mg/kg	0.0500	ND	26.1	25-160	17.4	20
Aldrin	0.0284	0.010	mg/kg	0.0500	ND	56.9	42-122	15.1	20
Dieldrin	0.0439	0.010	mg/kg	0.0500	ND	87.8	36-146	10.5	20
Endrin	0.0298	0.010	mg/kg	0.0500	ND	59.6	30-147	2.64	20
gamma-BHC (Lindane)	0.0337	0.010	mg/kg	0.0500	ND	67.4	19-140	4.07	20
Heptachlor	0.0164	0.010	mg/kg	0.0500	ND	32.9	34-111	22.0	20 QM



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Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1204 - EPA 8260B

Blank (U7G1204-BLK1)	Prepared & Analyzed: 07/12/17					
Surrogate: Dibromoformmethane	0.0257		mg/kg	0.0250	103	70-130
Surrogate: Toluene-d8	0.0250		mg/kg	0.0250	99.8	70-130
Surrogate: 4-Bromofluorobenzene	0.0232		mg/kg	0.0250	92.7	70-130
Dichlorodifluoromethane (CFC-12)	ND	0.0010	mg/kg			
Chloromethane	ND	0.0010	mg/kg			
Vinyl chloride	ND	0.0010	mg/kg			
Bromomethane	ND	0.0010	mg/kg			
Chloroethane	ND	0.0010	mg/kg			
Trichlorofluoromethane (CFC-11)	ND	0.0010	mg/kg			
Ethanol	ND	0.050	mg/kg			
Trichlorotrifluoroethane (CFC-113)	ND	0.0010	mg/kg			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0010	mg/kg			
1,1-Dichloroethene	ND	0.0010	mg/kg			
Carbon disulfide	ND	0.0010	mg/kg			
Iodomethane	ND	0.0010	mg/kg			
Acrolein	ND	0.050	mg/kg			
Methylene chloride	ND	0.0020	mg/kg			
Acetone	ND	0.020	mg/kg			
trans-1,2-Dichloroethene	ND	0.0010	mg/kg			
tert-Butyl alcohol (TBA)	ND	0.020	mg/kg			
Methyl tert-Butyl Ether (MTBE)	ND	0.0010	mg/kg			
Di-isopropyl ether (DIPE)	ND	0.0010	mg/kg			
Chloroprene	ND	0.0010	mg/kg			
1,1-Dichloroethane	ND	0.0010	mg/kg			
Acrylonitrile	ND	0.010	mg/kg			
Ethyl tert-Butyl Ether (ETBE)	ND	0.0010	mg/kg			
Vinyl acetate	ND	0.0010	mg/kg			
cis-1,2-Dichloroethene	ND	0.0010	mg/kg			
2,2-Dichloropropane	ND	0.0010	mg/kg			
Bromochloromethane	ND	0.0010	mg/kg			
Chloroform	ND	0.0010	mg/kg			
Carbon tetrachloride	ND	0.0010	mg/kg			
2-Butanone (MEK)	ND	0.0010	mg/kg			
1,1,1-Trichloroethane (TCA)	ND	0.0010	mg/kg			

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Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1204 - EPA 8260B

Blank (U7G1204-BLK1)	Prepared & Analyzed: 07/12/17									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloropropene	ND	0.0010	mg/kg							
Tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/kg							
Benzene	ND	0.0010	mg/kg							
1,2-Dichloroethane (1,2-DCA)	ND	0.0010	mg/kg							
Trichloroethene (TCE)	ND	0.0010	mg/kg							
Dibromomethane	ND	0.0010	mg/kg							
1,2-Dichloroproppane	ND	0.0010	mg/kg							
Bromodichloromethane	ND	0.0010	mg/kg							
Methyl Methacrylate	ND	0.0010	mg/kg							
2-Chloroethylvinyl ether	ND	0.020	mg/kg							
cis-1,3-Dichloropropene	ND	0.0010	mg/kg							
Toluene	ND	0.0010	mg/kg							
4-Methyl-2-pentanone (MIBK)	ND	0.0010	mg/kg							
trans-1,3-Dichloropropene	ND	0.0010	mg/kg							
Tetrachloroethene (PCE)	ND	0.0010	mg/kg							
1,1,2-Trichloroethane	ND	0.0010	mg/kg							
Ethyl methacrylate	ND	0.0010	mg/kg							
Dibromochloromethane	ND	0.0010	mg/kg							
1,3-Dichloropropane	ND	0.0010	mg/kg							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/kg							
2-Hexanone	ND	0.0010	mg/kg							
Ethylbenzene	ND	0.0010	mg/kg							
Chlorobenzene	ND	0.0010	mg/kg							
1,1,1,2-Tetrachloroethane	ND	0.0010	mg/kg							
m,p-Xylene	ND	0.0010	mg/kg							
o-Xylene	ND	0.0010	mg/kg							
Styrene	ND	0.0010	mg/kg							
Bromoform	ND	0.0010	mg/kg							
Isopropylbenzene	ND	0.0010	mg/kg							
trans-1,4-Dichloro-2-butene	ND	0.0010	mg/kg							
Bromobenzene	ND	0.0010	mg/kg							
n-Propylbenzene	ND	0.0010	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0010	mg/kg							

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Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1204 - EPA 8260B

Blank (U7G1204-BLK1)	Prepared & Analyzed: 07/12/17					
2-Chlorotoluene	ND	0.0010	mg/kg			
1,2,3-Trichloropropane (123TCP)	ND	0.0010	mg/kg			
4-Chlorotoluene	ND	0.0010	mg/kg			
tert-Butylbenzene	ND	0.0010	mg/kg			
1,2,4-Trimethylbenzene	ND	0.0010	mg/kg			
sec-Butylbenzene	ND	0.0010	mg/kg			
p-Isopropyltoluene	ND	0.0010	mg/kg			
1,3-Dichlorobenzene	ND	0.0010	mg/kg			
1,4-Dichlorobenzene	ND	0.0010	mg/kg			
n-Butylbenzene	ND	0.0010	mg/kg			
1,2-Dichlorobenzene	ND	0.0010	mg/kg			
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0050	mg/kg			
1,2,4-Trichlorobenzene	ND	0.0010	mg/kg			
Hexachlorobutadiene	ND	0.0010	mg/kg			
Naphthalene	ND	0.0010	mg/kg			
1,2,3-Trichlorobenzene	ND	0.0010	mg/kg			
Chlorodifluoromethane	ND	0.0010	mg/kg			
Dichlorotetrafluoroethane (CFC-114)	ND	0.010	mg/kg			
Xylenes	ND	0.0010	mg/kg			

LCS (U7G1204-BS1)	Prepared & Analyzed: 07/12/17					
Surrogate: Dibromofluoromethane	0.0248		mg/kg	0.0250	99.1	70-130
Surrogate: Toluene-d8	0.0249		mg/kg	0.0250	99.6	70-130
Surrogate: 4-Bromofluorobenzene	0.0232		mg/kg	0.0250	93.0	70-130
1,1-Dichloroethene	0.0185	0.0010	mg/kg	0.0198	93.1	70-130
Benzene	0.0199	0.0010	mg/kg	0.0200	99.6	70-130
Trichloroethene (TCE)	0.0208	0.0010	mg/kg	0.0200	104	70-130
Toluene	0.0199	0.0010	mg/kg	0.0200	99.4	70-130
Chlorobenzene	0.0198	0.0010	mg/kg	0.0200	98.9	70-130

LCS Dup (U7G1204-BSD1)	Prepared & Analyzed: 07/12/17					
Surrogate: Dibromofluoromethane	0.0253		mg/kg	0.0250	101	70-130
Surrogate: Toluene-d8	0.0243		mg/kg	0.0250	97.3	70-130
Surrogate: 4-Bromofluorobenzene	0.0221		mg/kg	0.0250	88.3	70-130
1,1-Dichloroethene	0.0170	0.0010	mg/kg	0.0198	85.4	70-130
Benzene	0.0194	0.0010	mg/kg	0.0200	97.2	70-130
					8.58	20
					2.54	20

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Volatile Organics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch U7G1204 - EPA 8260B

LCS Dup (U7G1204-BSD1)	Prepared & Analyzed: 07/12/17								
Trichloroethene (TCE)	0.0197	0.0010	mg/kg	0.0200		98.4	70-130	5.58	20
Toluene	0.0188	0.0010	mg/kg	0.0200		94.0	70-130	5.69	20
Chlorobenzene	0.0196	0.0010	mg/kg	0.0200		97.8	70-130	1.12	20



ANALYTICAL CHEMISTRY DIVISION
CALIFORNIA ELAP CERTIFICATION # 1371

CHAIN OF CUSTODY/ANALYSIS REQUEST

2527 FRESNO STREET • FRESNO, CA 93721 • PHONE (559) 268-7021 • FAX: (559) 268-0740

WORKORDER #:

PAGE 1 OF 1

DG 10038

REPORT TO:

INVOICE TO:

REPORT COPY TO:

REPORTING :

ATTENTION: Vern Bennett		ATTENTION: Moore Twining Associates, Inc.			
NAME: Moore Twining Associates, Inc.	NAME:	ADDRESS: 2527 FRESNO ST,	ADDRESS:		
ADDRESS: 2527 FRESNO ST,		PHONE: (559) 268-7126	PHONE:		
PHONE: (559) 268-7126		FAX: (559) 268-7021	FAX:		
SAMPLE INFORMATION		SAMPLE TYPES:		PROJECT INFORMATION	
SAMPLER BY (PRINT): Vern Bennett		SOLID: BS - BIOSOLID CR - CERAMIC SL - SOIL/SOLID		CONTRACT/P.O. NO.:	
SIGNATURE: Vern Bennett		LIQUID: DW - DRINKING WATER GW - GROUND WATER OL - OIL SF - SURFACE WATER ST - STORM WATER WW - WASTE WATER		PROJECT: Visalia Water Conserv. Plant	
<input type="checkbox"/> PUBLIC SYSTEM <input type="checkbox"/> ROUTINE		DW - DRINKING WATER		PROJECT NUMBER: Vern Bennett	
<input type="checkbox"/> PRIVATE WELL <input type="checkbox"/> REPEAT		GW - GROUND WATER		PROJECT MANAGER: B940001.01	
<input type="checkbox"/> OTHER <input type="checkbox"/> REPLACEMENT		OL - OIL			
TURN AROUND TIME: STANDARD 10 DAY TAT		SF - SURFACE WATER			
RUSH, DUE ON:		ST - STORM WATER			
WW - WASTE WATER					
NOTES ON RECEIVED CONDITION:				ANALYSIS REQUESTED	
L A B U S E	<input type="checkbox"/> CUSTODY SEAL(S) BROKEN	<input type="checkbox"/> SAMPLE(S) DAMAGED		SVOCs	OCTPs
	<input type="checkbox"/> ON ICE	<input type="checkbox"/> AMBIENT TEMP.	<input type="checkbox"/> INCORRECT PRESERVATION	PCPs	Cyanide
	CLIENT SAMPLE ID			Total Solid	Cyanide
	DATE				
	TIME				
	TYPE				
1	S1	7/16/17	11:00	BS	X X X X X X X X
2	S2		1115		X X X X X X X X
3	S3		1130		X X X X X X X X
4	S4		1145		X X X X X X X X
5	S5		1200		X X X X X X X X
6	S6		215		X X X X X X X X
7	S7	7/16/17	1230	BS	X X X X X X X X

COMMENTS/ADDITIONAL INSTRUCTIONS:

RELINQUISHED BY COMPANY DATE TIME RECEIVED BY COMPANY
Jan Bets MTA 7-10-17 1245 Mary Bets MTA

Moore Twining Associates
WO# DG100630

Sample Integrity

Page 1 of 1

MTA Bottles: Yes or No

MTA Bottles:

MTA Bottles: Yes or No

135
@ 1000

Labels checked by: John @ 1400

FL-SC-0003-06